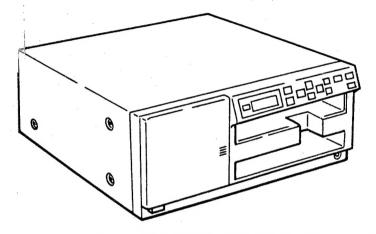
UP-5200MD/5250MD

SERVICE MANUAL

US Model Canadian Model



SPECIFICATIONS

Printing system Sublin Number of picture elements

Total gradation

Printing time

TV system Video signal Sublimation heat transfer printing

720 x 468 PELS (for normal size) 256 levels each for yellow, magenta, and cyan

Approximately 60 seconds (for color printing in normal size) Approximately 24 seconds

(for monochrome printing) Conforming to EIA standards

RGB SYNC (RGB video signal) * BNC connector, 0.7 Vp-p, 75 ohms (when the 75 ohms ation switch is set to ON)

R-Y Y B-Y (Component signal)

BNC connector Y: 1 Vp-p, 75 ohms (when the 75 ohm termination switch is set to

R-Y B-Y: 0.7 Vp-p, 75 ohms (when 75 ohm termination switch is set to ON, offset 7.5% and

75% color bar) S-VIDEO (Separate luminance (Y) and chrominance (C) signals Y: 1 Vp-p

C: 0.29 Vp-p 75 ohms (when the 75 ohm termination switch is set to ON)

VIDEO (NTSC composite video signal)

BNC connector, 1 Vp-p, 75 ohms (when the 75 ohm termina switch is set to ON), sync

negative
AC IN (for power input)
REMOTE 1 (front panel, for the supplied remote control unit

only), special mini jack
REMOTE 2 (automatic printing connector)

Stereo mini jack
RS-232C (Computer control

interface) D-SUB 25-pin connector Either the RGB video signal or component signal is selected by the RGB/R-Y/Y/B-Y selector on the **Output connectors**

RGB SYNC (analog RGB singnal)

BNC connector RGB: 0.7 Vp-p, 75 ohms

terminated SYNC: 1 Vp-p S.VIDEO

Y: 1 Vp-p, 75 ohms terminated C: 1 Vp-p, 75 ohms terminated VIDEO (NTSC composite video

signal) BNC connector, 1 Vp-p, 75 ohms (when the 75 ohm termination

switch is set to ON), sync negative

Ink ribbon and printing sheet sets Color printing pack: UPC-5010A (100

sheets)

B & W printing pack: UPC-5020A (100 sheets)

OHP printing pack: UPC-5030 (50

Power requirements

100 to 120 V AC, 50/60Hz Input current 3.5 A (printer) plus 2.5A

Power consumption

200W (printing gray pattern in normal size under 25°C)

Operating temperatur

5°C to 35°C (40°F to 95°F) About 424 × 190 × 472 mm (w/h/d) Dimensions

(16 3/4 × 7 1/2 × 18 3/4 inches)

About 15.6 kg (34 lb 7 oz) Weight

UPC-5010A color printing pack (1)

Paper tray (1) Print tray (1) AC power cord (1) Remote control unit (1) Dry battery SUM-3 (NU) (2) Connecting cable for the remote

control unit (1) Warranty card (1) Instruction manual (1) Quick reference card (1)

- Continued on page 2 -

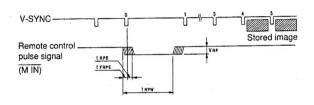


Using the automatic printing capabilities (REMOTE 2) If you send the remote control pulse signals illustrated below through the REMOTE 2 connector, you can both store and print video images automatically.

To begin, turn on the power and select the input signal. Set the monitor display to the input signal because the printer's timing mechanism doesn't work properly when the monitor displays the memory. Press SOURCE/MEMORY to change the display from memory to input. Send a remote control pulse signal.

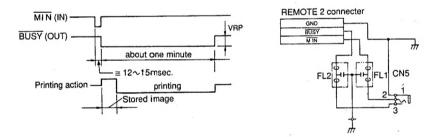
If you are printing more than one image, be sure to return the monitor display to the input signal after every image is stored.

Regulations of remote control pulse (MIN)



Nortation	Parameter	MIN	TYP	MAX	Unit	Remarks
TAPE	Time within which a remote control pulse should be cleared to zero.	0	-	5	msec	
trape	Time within which a remote control pulse should be cleared to zero.	0	-	5	msec	
trpw	Length of a remote control pulse.	15	-		msec	
VRP	Amplitude of a remote control pulse.	-	-	5	V	This value is based on TTL standards.

The relation between $\overline{\text{MI N}}$ and $\overline{\text{BUSY}}$.



Design and specifications are subject to change without notice.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK

ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE A SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REM-PLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPOR-TANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNE-MENT EST SUSPECTÉ.

SAFETY CHECK-OUT

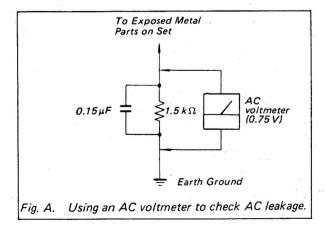
(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cord for cracks and abrasion.
 Recommend the replacement of any such line cord to the customer.
- Check the condition of the monopole antenna (if any).
 Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's
 - replacement.

 Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

if sets always have low HV.



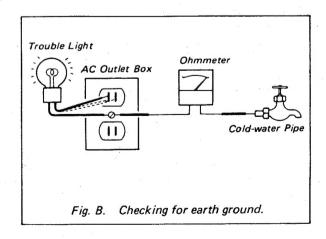
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



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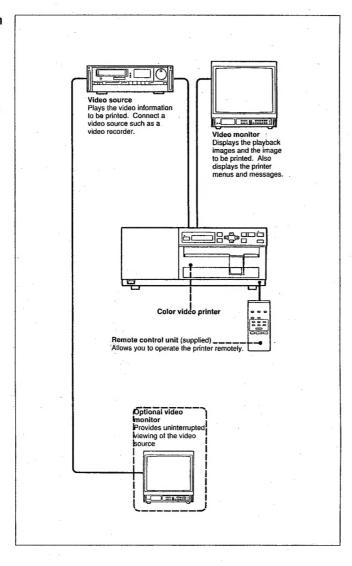
SECTION 1 GENERAL

1-1. SYSTEM OVERVIEW

This section is extracted from instruction manual

System configuration

Connect a video machine capable of sending a video image to the printer. Connect a video monitor to the printer to view an image before printing it. If you connect another monitor to the video source, you can also view the moving video image being output by the source.



Ink ribbon cassette and paper

The video printer uses ink ribbon cassettes and special paper. The cassette and sheets are sold as sets; a set for color printing on paper, for monochrome printing on paper, and for color printing on OHP transparencies. Use the appropriate cassette/paper set:

Color printing pack UPC-5010A (One pack is supplied) One pack includes an ink

ribbon cassette and 100 sheets of 53/4 x 83/s paper.



Monochrome printing pack UPC-5020A (not supplied) One pack includes a B & W ink ribbon cassette and 100 sheets of 53/4 x 83/8 paper.

OHP printing pack UPC-5030 (not supplied) One pack includes an OHP ink ribbon cassette and 50 sheets of 53/4 x 83/8 OHP transparencies.

Video signals that can be processed by the color video printer

You can connect the following signal sources to the printer.

The signals outlined below can be processed by the color video printer. The way they are actually connected is described on page 18.







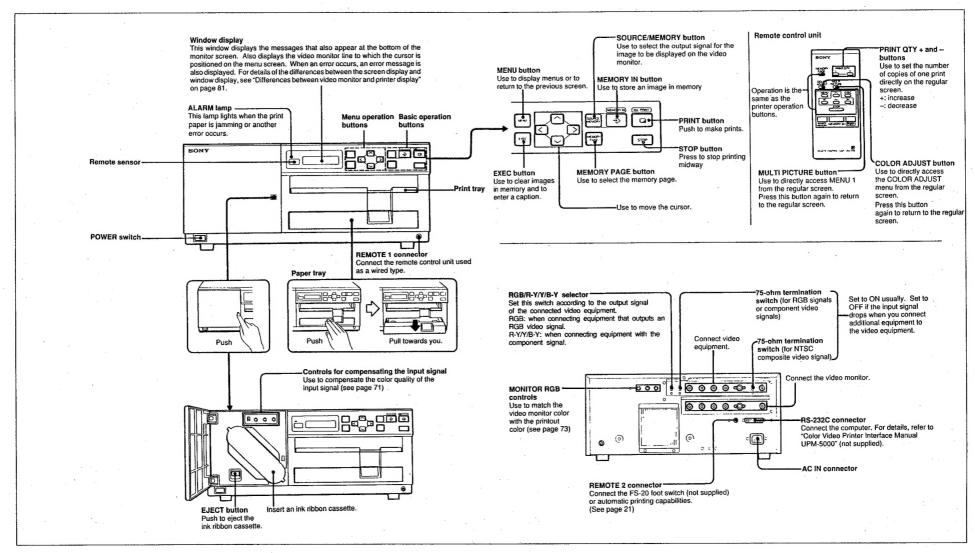




1) Switch between RGB video signals or component signals with the RGB/R-Y/Y/B-Y selector on the rear panel.

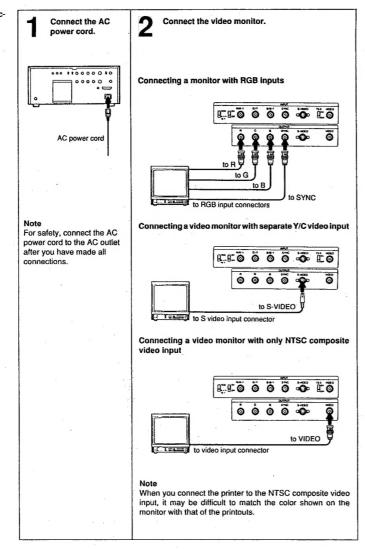
S

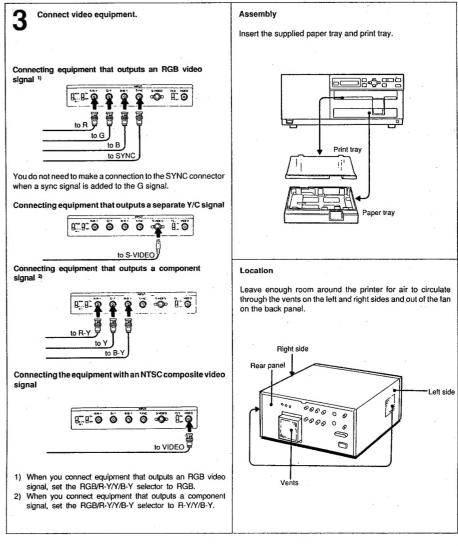
1-2. LOCATION AND FUNCTION OF PARTS AND CONTROLS



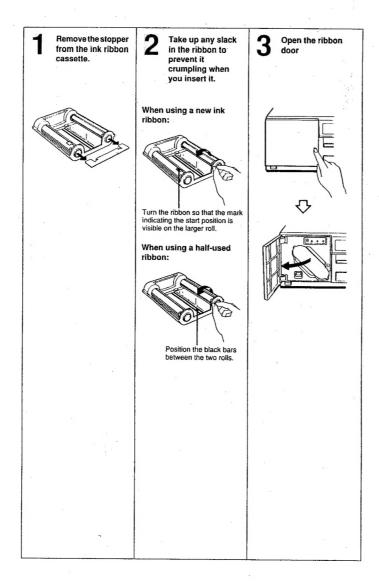
1-3. CONNECTIONS

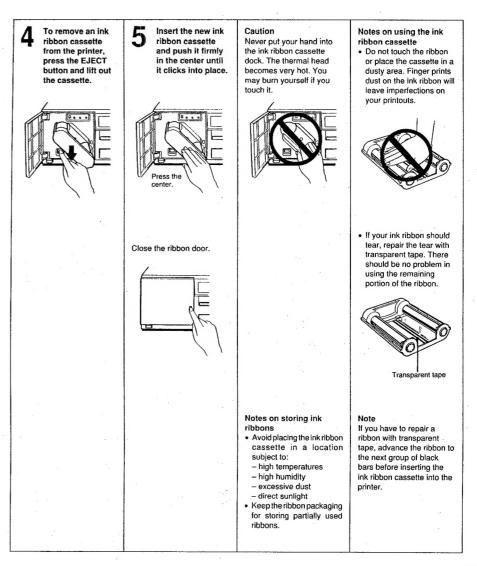
Make the necessary connections as follows.





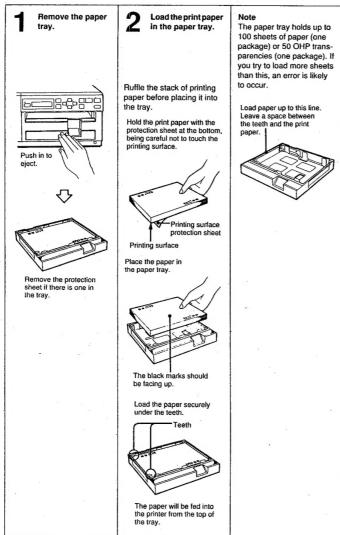
1-4. LOADING AN INK RIBBON CASSETTE



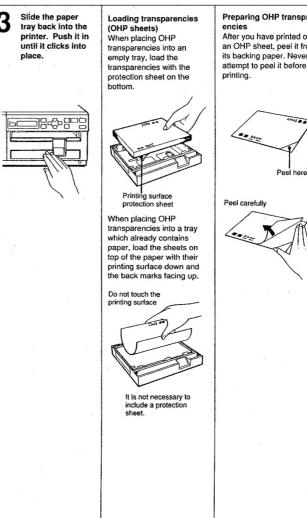


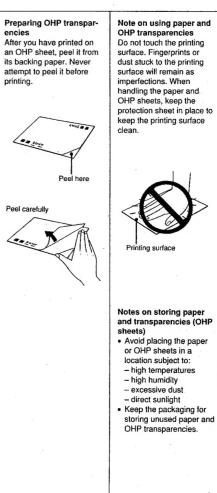
1-5. LOADING PRINT PAPER

Load paper into the color video printer as follows.



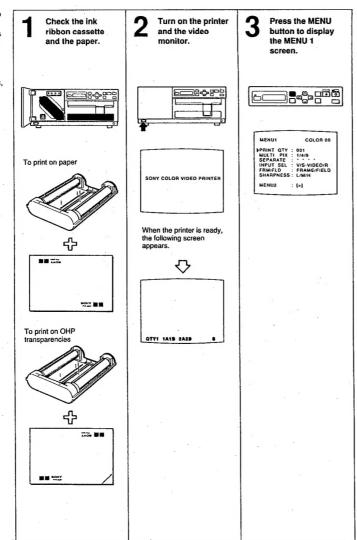


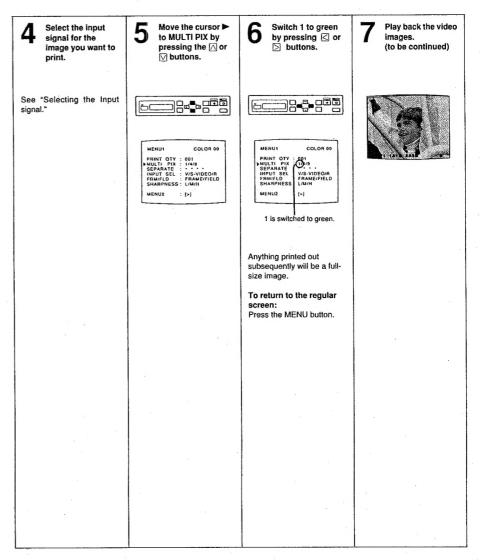




Note

If your printer is set to print four or nine reduced images, change the setting to fullsize before printing.





10



The stored image appears on the screen.



When the stored image is blurred

A quickly moving image may be blurred when it is printed. If this happens, switch the memory mode from frame to field to eliminate the blur. However, since printing in field mode has lower resolution than in the frame mode, the print quality will be slightly lower. (For details, see page 62).





Frame mode



Field mode

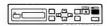
To change the image to print

- Press the SOURCE/MEMORY button to return to the playback image.
- ② Press the MEMORY IN button again to store a new image in memory. The previous image is replaced with the new one.

9

Press the PRINT button.

It takes about one minute to print one page.

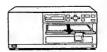




Blinks during the printing process. Printing starts - yellow - magenta -cyan - printing ends.

Note

The paper is ejected over the print tray at several stages during the printing process. Do not handle the paper until printing has been completed.



When it is complete, the printout is pushed forward.

To stop printing before completion

Press the STOP button.
Printing ends immediately and the paper is ejected to the print tray.

When you want to see an image that is hidden below a screen message You can erase the screen messages on the video monitor. For details, see page 74.

To store other images in memory during printing

You cannot store an image in memory where the image which you are printing is stored. Select another memory page and store the next image in that memory page.

- Select another memory page by using the MEM-ORY PAGE button.
- When the image you want to print is on the monitor, press the MEMORY IN button to store it in memory.

When the printer does not print

- Whenever an error message is displayed on the video monitor, the printer will not print. To correct the error, see "Error Messages" on page 84.
- When you turn the power off, the image stored in memory is erased. To subsequently print an image, you must store it again.

Notes on preserving your printouts

- Do not place a printout under a clear vinyl desk mat or in a clear plastic file that contains a plasticizer. Also, avoid leaving plastic erasers on top of the prints. The ink will stick to the plastic surface.
- Be sure not to leave the printed surface of an OHP transparency pressed against anything (even objects that are not plastic or vinyl). The ink may come off onto the other surface.
- To avoid degradation of the color do not place the prints in locations subject
- direct sunlight
- high temperatures
- high humidity

Making more than one copy of an image

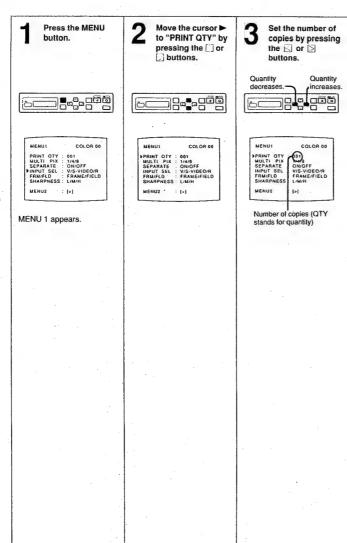
You can print up to 100 copies of a stored image. Do the following before printing or while printing the first copy. You can change the designated number of copies at any time before printing has ended.

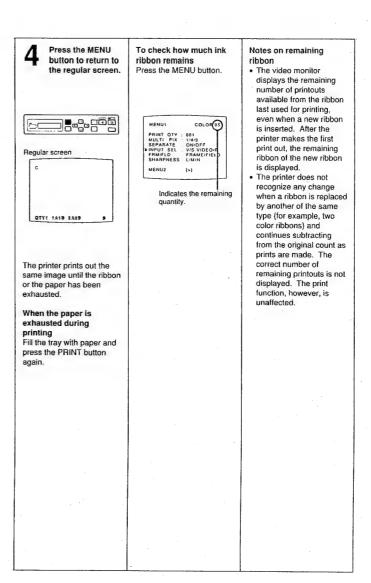
When controlling the printer with the supplied remote control unit You can designate or change the number of copies on the regular screen, instead of the menu screen, by using the PRINT QTY + and – buttons. You can designate or change the number even during printing.

Display of the print quantity

The number of copies is displayed on moniter screen and printer window display as follows.

Qty	Monitor display	Printer window display
1	QTY1	Q1
10	Q010	10
99	Q099	99
100	Q100	00

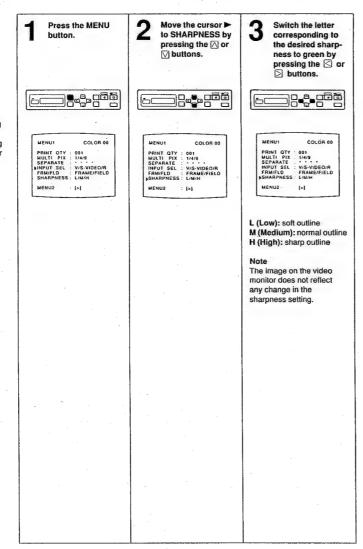




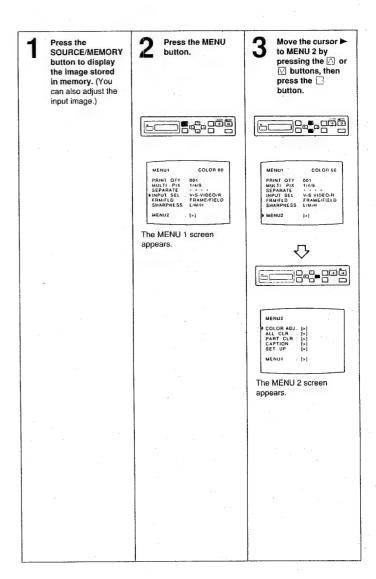
This section explains how to adjust and store a picture's sharpness, color intensity and contrast.

Adjusting the sharpness

You can set the sharpness of the printout to one of three levels: L (Low), M (Medium) or H (High). A printout appears softer or sharper depending on the definition of the subject outline. Change this setting before printing as necessary. The new setting remains valid until you enter a new setting - even if you turn the power off.



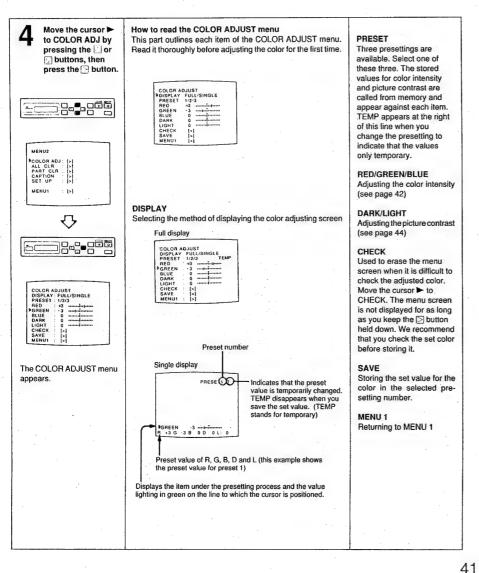
Displaying the COLOR ADJUST menu screen



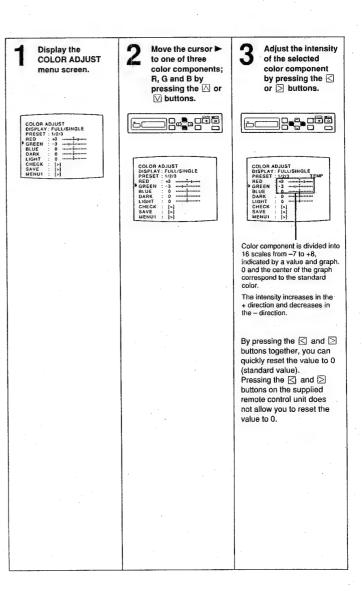
38

40





Adjusting the color intensity
Adjust a printout's color intensity by separately adjusting the r (red), g (green) and b (blue) parts of the image while it is displayed on the video monitor.



Note

This set value is only temporary. This setting is cleared when you turn the printer off.

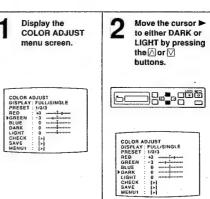
When it is difficult to check the settings because of the display on the monitor

To check your settings, you can erase the display using either of the following two methods.

- Select the SINGLE screen.
 Move the cursor ▶ to DISPLAY and switch SINGLE of FULL/ SINGLE to green by pressing the ☒ or ☒ buttons.
- You can select the item to be adjusted by pressing the △ or ☑ button on the SINGLE screen.
- Erasing the display temporarily Move the cursor ▶ to CHECK and press the ⊠ button. For as long as you keep the ⊠ button held down, the display does not appear on the screen.

Adjusting the picture contrast

Adjust the picture contrast of a print by adjusting the extremes of dark and light of the image with the COLOR ADJUST menu screen, while viewing the image on the video monitor.



DARK: Adjusts the dark area of an image LIGHT: Adjusts the light area of an image Adjust the selected picture contrast by pressing the or buttons.



in the + direction and weakened in the - direction.

By pressing the \(\le \) and \(\subseteq \) buttons together, you can quickly reset the value to 0 (standard value). Pressing the \(\le \) and \(\subseteq \) buttons on the supplied remote control unit does not allow you to reset the value to 0.

Note

This set value is only temporary. This setting is cleared when you turn the printer off.

When it is difficult to check your settings because of the display on the monitor.

To check your settings, you can erase the display using either of the following two methods.

· Select the SINGLE screen. Move the cursor ► to DISPLAY and switch SINGLE of FULL/ SINGLE to green by pressing the < or > buttons.

You can select the item to be adjusted by pressing the A or V button on the SINGLE screen.

· Erasing the display temporarily Move the cursor ► to CHECK and press the [>] button. For as long as you keep the D button held down, the display does not appear on the screen.

When the image in a light area of the print does not appear

Select LIGHT and reduce the set value by moving the green scale to the left.

If you still cannot output a good printout Set the GAIN AUTO/ MANUAL selector to MANUAL and, while watching the image on the video monitor, turn the GAIN control counterclockwise until an image in a light area can be seen.

When the image in a dark area of the print does not appear

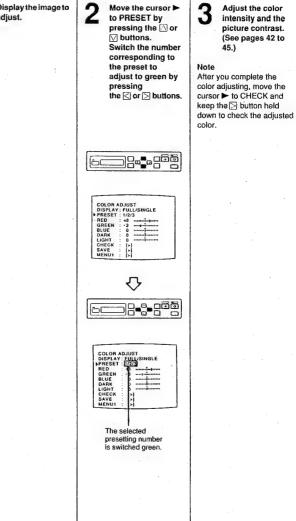
Select DARK and reduce the set value by moving the green scale to the left.

If you still cannot output a good printout Set the GAIN AUTO/ MANUAL selector to MANUAL and, while watching the image on the video monitor, turn the GAIN control clockwise until an image in a dark area can be seen.

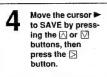
Storing the new picture adjustments in a presetting

You can store up to three presettings. The printer will retain these even if you turn the power off.

This is useful when you are using more than one video player, each of a different quality, and when you want to print images with different color qualities and picture contrasts.



Display the image to adjust.









TEMP disappears

	_			1
COLOR DISPLAY PRESET RED GREEN BLUE DARK LIGHT CHECK SAVE MENUI	1	FUL	LISINGLE	

The setting made in step 3 is stored.

To call a stored presetting

Select PRESET from the COLOR ADJUST menu and switch the number corresponding to desired presetting to green.

TEMP displayed in step 3 If you change the settings for a called preset, TEMP appears. This TEMP disappears if you store the setting which you changed, in step 4. You can also print while TEMP is displayed. The printer prints with the temporarily set value, however. By turning the printer off, this temporarily set value is cleared and the settings are reset to those stored before you changed the settings.

Frame mode and field mode

This section explains how to use and set the memory. To print an image, you must first store it in memory. Although the memory usually stores a single image, you can set it to store two full-size images having lower resolutions.

As described above, one memory consists of two fields, 1A and 1B. You can use these two fields together or separately. The memory use status is called the "memory mode." There are two memory modes as follows.

- Frame mode
 Two field memories are
 used together to store one
 image.
- Field mode
 One field memory, either 1A or 1B, is used to store one field of an image.

The Sony UP-5200MD has one memory which consists of two memory fields.



When you select FRAME mode to use two fields to store one image, 1A 1B appears on the video monitor. When you select FIELD mode where you use one field to store one image, 1A 1B appears.

The Sony UP-5250MD has two memories.

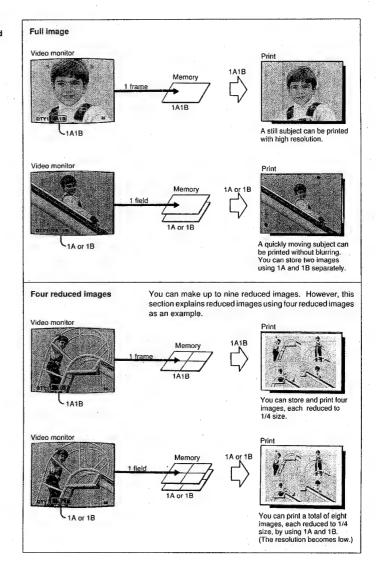


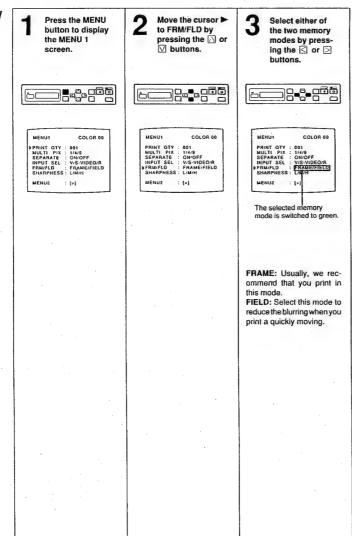
When you select the FRAME mode, 1A1B 2A2B appears on the video monitor. When you select the FIELD mode, 1A1B 2A2B appears.

Note

This section explains the use of the memory using the UP-5200MD (which has one memory) as an example. The principle is the same for the two-memory UP-5250MD.

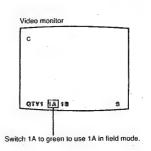
Frame mode and field mode of a full image and reduced images



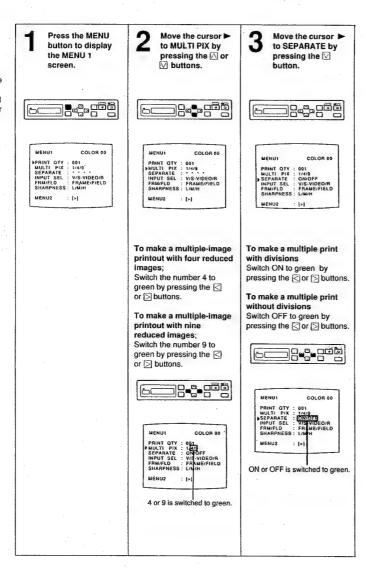


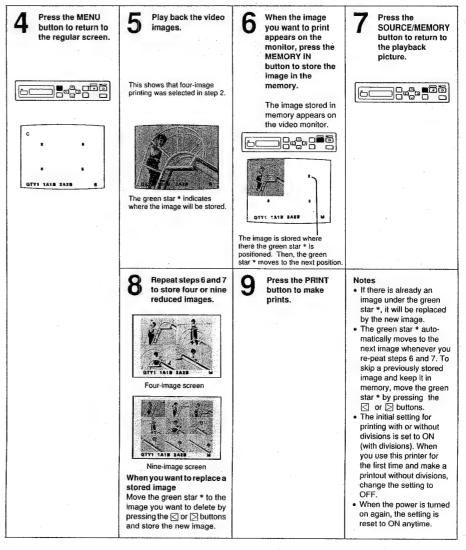
Selecting the memory page

The memory used to store an image is called a memory page. Even when we use two memory fields in the frame mode to store one image, we call this 1A1B one memory page. Switch the color of the memory page, to be used to store the image, to green, by pressing the MEMORY PAGE button.



By selecting the appropriate memory setting, you can make a multiple-image print with four reduced images or nine reduced images. You can also make a multiple-image print with white divisions.





Example: Making printouts with one of four reduced images inserted



Play back the video image and press the MEMORY IN button to store the background image (full-size).



Note
If your printer is set to print four or nine reduced images, change the setting to fullsize before printing.

Press the MENU button to display the MENU 1 screen.



Move the cursor ► to MULTI PIX by pressing the △ or ○ buttons and switch the number 4 to green by pressing the △ or ○ buttons.

Move the cursor

to SEPARATE
by pressing the △
or ⋈ buttons.

Then switch OFF to green by pressing the ☑ or ☑ buttons.

Note
If you print with
SEPARATE set to ON, an
image is printed with white
divisions.

Press the MENU button to return to the regular screen.

Move the green star * to the point where the reduced image is to be inserted by using the ☑ or ☑ buttons.

The insert image is stored



in the memory page

selected in Step 6.

Play back the

MEMORY IN

image. Press the

button when the

insert appears.

image you want to

Press the PRINT button to make a printout.



You cannot print an image stored in a different memory.

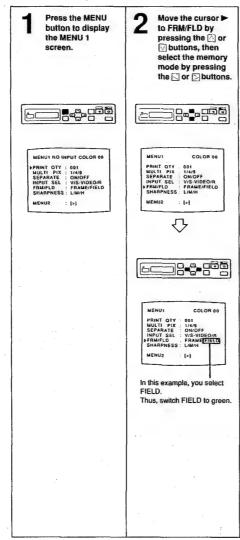
_ 17

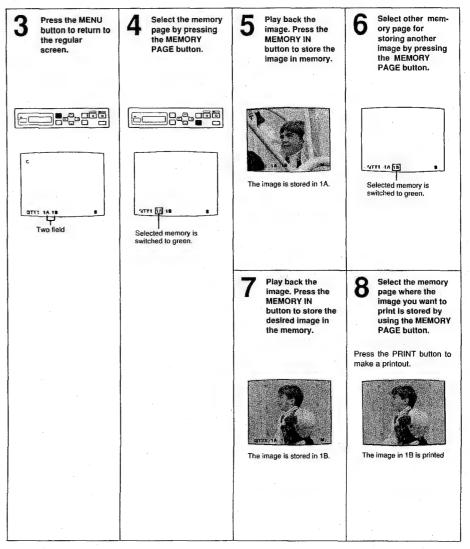
Storing more than one

Example: When you are using the UP-5200MD printer, you store two images in the field mode

Memory mode	Number of images you can store (for the UP-5200MD)	Number of images you can store (for the UP-5250MD)	
Frame mode	One ¹⁾	Two *	
Field mode	Two ³⁾	Four ⁴⁾	

- This is for full-image printing. Four for four-image-printing and nine for nineimage-printing
- This is for full-image printing. Eight for four-image-printing and 18 for nineimage-printing
- This is for full-image printing. Eight for four-image-printing and 18 for nine-image printing
- This is for full-image printing. 16 for fourimage-printing and 36 for nine-image printing





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Select the memory page containing the image you want to delete by pressing the MEMORY PAGE button.

Press the MENU button to display the MENU 1 screen. Move the cursor ▶ to MENU 2 by pressing the △ or ☑ buttons, then press the ▷ button.

The MENU 2 screen appears.

MENU2

| MCOLOR ADJ: [>]
| ALL CLR : [>]
| PART CLR : [>]
| CAPTION : [>]
| SET UP : [>]
| MENU1 : [>]

Move the cursor ► to ALL CLR or PART CLR, then press the ▷ button.

To delete the full image Move the cursor to ALL CLR. To delete a reduced image

Move the cursor to PART CLR.

Note
When you move the cursor

➤ to PART CLR, the
reduced-image screen
selected at MULTI PIX on
MENU 1 appears. If you
want to delete the other
reduced images, return to
the MENU 1 screen and
change the MULTI PIX
settings.

Press the

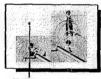
Press the EXEC button.



The screen or location from which the image was deleted becomes whitish.

To delete the reduced images

Move the green star * to the location where there is the image you want to delete by pressing the ☑ or ☑ buttons, then press the EXEC button.



The image in this position is cleared.

When you are deleting reduced images, repeat step 4 until you have to delete all the images you want to delete.

You can change the memory mode from frame to field to print an image stored in the frame mode. When a printout is blurred in frame mode, switch to field mode and print the image. You can thus eliminate blurring.

Why does setting the memory to FIELD eliminate blurring?

A monitor displays a video image by sending electron beams across its screen; first every other line, then returning to the top and filling in the spaces to the bottom. Each of the two runs from top to bottom is a field. Together they make up a frame.



First scanning (for 1 field)

Stored in 1A



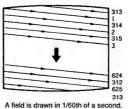
(for 1 field) (The

Stored in 1B



overlapped image

Video cameras record images in these halfframes, or fields. The example below illustrates how a quickly moving subject is recorded in two parts - once from top to bottom with alternate gaps, and then again from the top to the bottom filling in every other line. If the subject moves within 1/60th of a second from the first tracking. the second tracking will be slightly offset. When 1A and 1B, each corresponding to one of the two fields of the stored image. are overlapped in the frame setting, 1A1B, the image will appear jittery on the monitor and blurred when printed. Separated into its two fields, however, a quickly moving subject will not be blurred.

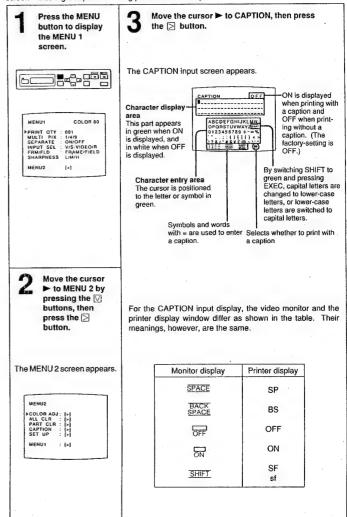


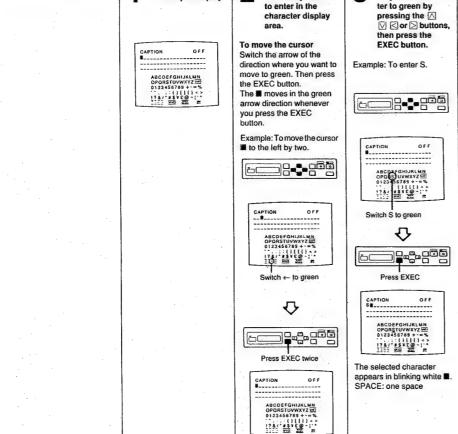
A frame is completed in 1/30th of a

Displaying the **CAPTION** input screen

You can enter a caption, such a data or comments, in small characters below the image. You can input 60 characters. When you use a computer connected to the RS-232C connector, you can input up to 320 characters (two lines each for the top and bottom of the screen, four lines in total) in the NARROW size and NORMAL size mode and 160 characters (one line each for the top and bottom, two lines in total) in the WIDE size mode.

This section explains how to enter a caption. The order is as follows. • Displaying the CAPTION input screen . Entering a caption . Making printouts with a caption





Display the CAP-

TION input display.

Move the cursor ■

to where you want

Switch the charac-

ter you want to en-

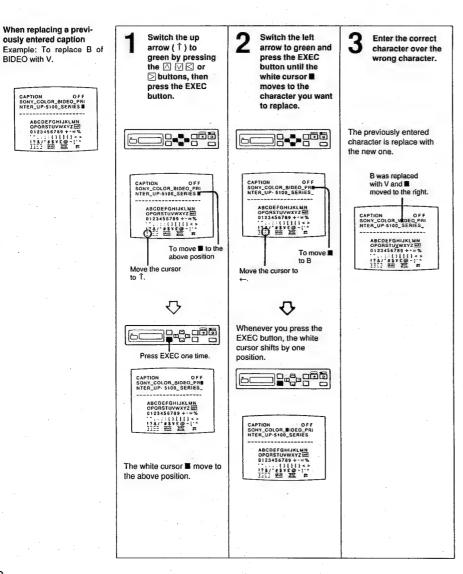
Repeat steps 2 and 3 to enter the When the character display area is displayed in white, remaining characters of a caption. the setting for CAPTION is OFF, so that you can not add a caption to a printout. See "Making printouts with a caption" on page 67. Entered characters are stored and kept even after you turn off the power.

When you enter a wrong character
Switch the BARCE to green by pressing the ⚠ ☑ ☑ or ∑ buttons, then press the EXEC button. The character to the left of ■ will be deleted.

When replacing a previ-

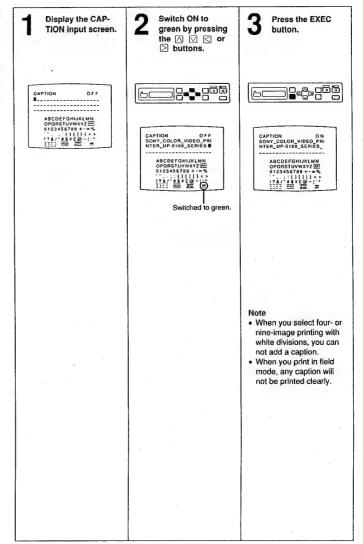
ously entered caption

CAPTION OFF SONY_COLON_BIDEO_PRI NTER_UP-5100_SERIES #

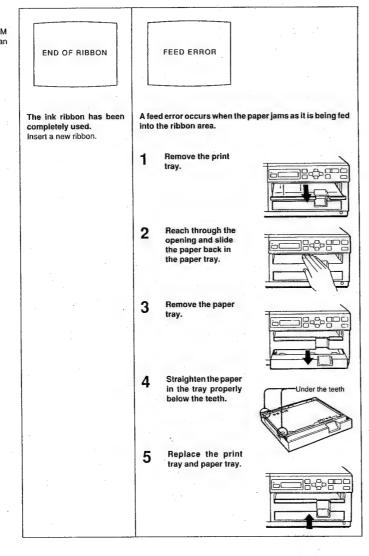


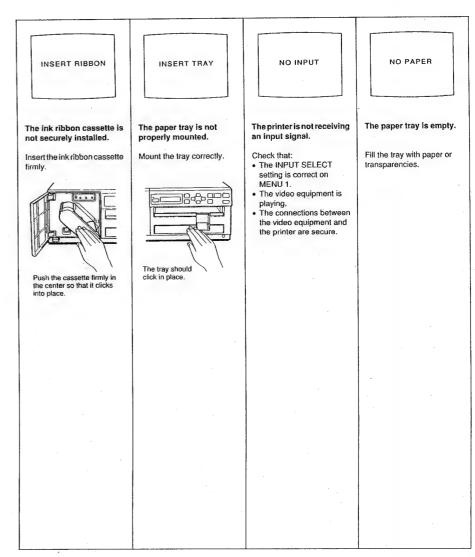
Making printouts with a caption

The factory setting for CAPTION is OFF (the printer prints without adding a caption). Set the CAPTION function to ON as follows.



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PLEASE WAIT

PROCESS ERROR

If you turn the printer off during printing, the printer ejects the unfinished printout. PLEASE WAIT appears on the video monitor when you turn the printer on again. Wait about 20 seconds before operating the printer.

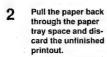
A process error occurs when the paper jams during the printing process.

When this message appears before the printer starts printing, remove the paper similarly in the same way as when FEED ERROR appears, then reload the paper.

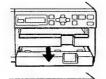
When this message appears during printing, remove the paper and load the paper again.

Remove the paper tray.

If you can't remove the paper tray, follow the steps given for FEED ERROR.



Reinsert the paper tray.







If you turn the printer off and then on again, the paper will be ejected automatically. Any images in memory, however, will

The paper may be visible above the print tray. In this case, pull the paper out from above the print tray.

RIBBON ERROR

The ink ribbon is torn or becomes tangled in the printer.

Remove the ink ribbon cassette, take up the slack and reinsert it.

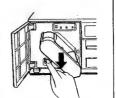
If the paper has become stuck as well, remove it as described under PROCESS ERROR.

Open the ribbon door. Next, remove the ink ribbon by pressing the EJECT button.

Take up the slack by rolling the ribbon counterclockwise until the black bars are positioned between the rolls.

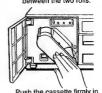
> If the ink ribbon is torn, repair it with transparent tape. There should be no problem in using the remaining portion of the ribbon.

Reinsert the ink



Position the black bars between the two rolls.

ribbon and close the cabinet.



Push the cassette firmly in the center so that it clicks in place.

TURN PAPER OVER

The paper is upside down in the paper tray.

Turn the paper over so that the black mark are facing up.



1-11. TROUBLE SHOOTING

Symptom	Causes and remedies				
The printer does not print.	An error message appears on the display. → See "Error Messages" on page 84. Check that: The power is on. All connections are correct. → See page 18 for an explanation of the connections.				
The printout is blurred.	Switch to field mode and print the image. (See page 62				
A black line appears on the printout.	See "If a Black Line Appears on Printouts" on page 75 an adjust the image. Store a new image and print it. If a black line still appears on the printout. See "Changing the screen size" and change the scree size. Store a new image and print it.				
The printer makes a printout with black divisions.	See "Changing the screen size" and change the screen size. Store a new image and print it.				
The printed image or caption is partially cut out.					
Nothing appears on the video monitor.	If an incorrect sync signal is input, nothing may appear of the monitor. In this case, check the video monitor first be pressing the SOURCE/MEMORY button to display the image stored in memory. If an image appears, the vide monitor is working correctly. → Change the INPUT SELECT settings on the memory screen. Or, set the connected video equipment to playback modifit is in another mode such as stop mode.				

1-12. SERVICE MODE

1-12-1. Operation:

The unit can be entered in service mode by simultaneously holding down the $\overline{\text{MEMORY-IN}}$ and $\overline{\text{STOP}}$ keys.

Check:

Once service mode is entered, one of the ≪TEST MODE SERVICE≫ screens shown in Fig1—① will appear on the screen. If you do not have a monitor, an LCD will do. The default screen after startup is ≪STAIR STEP (H)≫.

Note: Once you execute a signal in service mode, the screen selected will be stored in memory such that display will appear the next time service mode is entered. The screen 《STAIR STEP (H)》 appears whenever power is turned off then on again because memory is reset.

1-12-2. Generating Special Signals

In sevice mode, a display shows the types of special signals that can be generated appears on the first line. There are eight types. Screens shown below can be written into memory, and output made to the monitor or printer. These signals are extremely useful in checking print functions and signal flow after leaving memory circuits.

First, press the SOURCE/MEMORY Key to bring up the memory screen. Next, move the cursor using the \land and \bigvee keys to select the signal line. Move the cursor using the \triangleleft and \triangleright keys to select the desired signal. Eight types of signals, described below, are available. After selecting a signal, press the EXEC key. Although execution time depends on the signal selected, the selected signal will be output on the monitor (monitor

of seconds.

Note: Be sure that the COLOR adjustment is aligned with center in normal service mode test signals can be used most effectively. There are many advantages to

black while waiting) within several seconds to several tens

[STAIR STEP (H)]

having COLOR set to center.

A stair step signal such as that shown in Fig.1-2 is written into memory. This signal can be used to check darkness when replacing the thermal head.

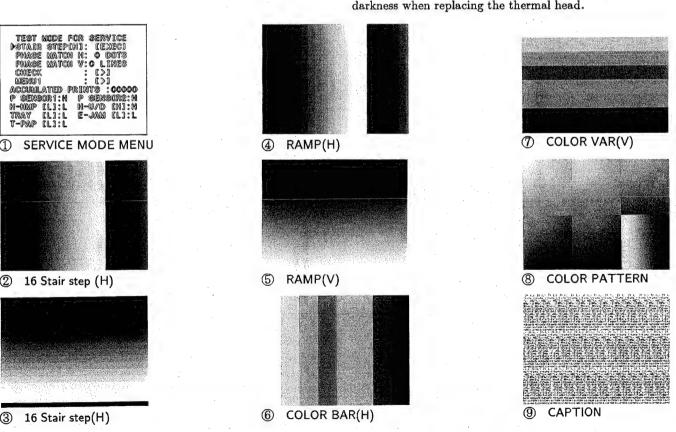


Fig.1 SERVICE MODE PATTERN

[STAIR STEP(V)]

A stair signal such as that shown in Fig.1-③ is written into memory. Print signals to the printer are sent in the vertical direction in relation to the thermal head. This signal can be used to check for any errors in sending such signals, because any shift in the vertical direction when printing this stair step pattern will indicate an error.

[RAMP (H)]

A ramp signal such as that shown in Fig.1-4 is written into memory. This signal can be used to check for missing bits in digital signals, or to visually identify improper resistance of the thermal head.

[RAMP(V)]

A ramp signal such as that shown in Fig.1- is written into memory. This signal can also be used to check for missing bits in digital signals. It is also perfect for checking if print signals are being sent normally. This is because this signal offers a constant slope in the vertical direction. A description on how to use this signal in checking memory boards is given later.

[COLOR BAR(H)]

A color-bar signal such as that shown in Fig.1-6 is written into memory. This signal can also be used in the same way as [COLOR BAR(V)].

[COLOR BAR(V)]

A color-bar signal such as that shown in Fig.1-① is written into memory. This signal can be used when adjusting R, G, or B of the encoder.

[COLOR PATTERN]

A color-pattern signal such as that shown in Fig.1-® is written into memory. This signal can be used in checking the masking circuit. When this signal is greatly different from the monitor, the circuit is probably bad.

[CAPTION]

A caption signal such as that shown in Fig.1-9 is written into memory. This signal can be used to check if colors are correct.

[OPTION1~]

This is provided only for design purposes and produces no pattern.

These that signals are written into the DRAM of FMY-8. The test signals are generated by the CPU on the same board before being written to DRAM. Accordingly, all signals written are accurate and have 8-bit quantized precision. Although signal flow for the UP-5100/5200 Series is a three signal flow as given by(1),(2) and (3)in Fig. 2, for this set, signal flow(2) output to monitor TV and signal flow (3) output to the printer. Simple uses for these signals during service are described below.

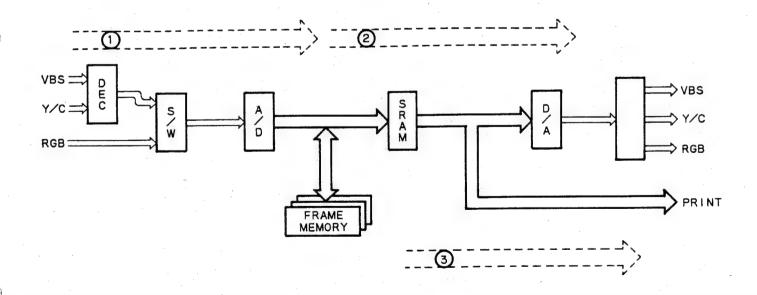


Fig.2 UP-5100/5200 Series signal flow.

[Analog Circuit Check]

There are analog circuits on both sides of the digital circuit. Since this digital circuit can generate test signals, it is possible to check if there are problems in either analog circuit. If a test signal shows the circuits to be normal even though user-input signals result in errors, there is a strong possibility that there is a problem before the digital circuit in either the IF-19 board (input circuit) or VA-26 board (decoder circuit), or if a test signal does not show, there is a strong possibility that there is a problem after the digital circuit in either VA-26 board (encoder) or IF-19 board (output circuit), or in the digital board (FMY-8 board)itself. Make a PRINT to determine in this case whether the digital or an analog circuit is the problem. If there is no problem in printing, an analog circuit is probably at fault. A further check of the FMY-8 board can be made by using the RAMP (H) test signal.

Test signals can also be used during adjustment to check voltage levels in the analog circuit after the digital circuit. Since maximum white levels and complete black levels are used in black-and white displays, test signals may even be used as reference signals. The color-bar signals may also be used during adjustment since they are output at 100% of reference level. Colors are in the order of yellow, cyan, green, magenta, red, blue and black.

[PRINT Check]

Any test signal that varies in the vertical direction is very useful whenever there are problems when printing but no problem with monitor output. The easiest of these to use is the RAMP(V) signal. Observe CN3 of the FMY-8 board while printing. If you observe a waveform such as that shown in Fig. 3, there is no problem with the FMY-8 board. The problem in this case is with the SY-9 board which controls the PRINT engine. Note that no meaningful data is transmitted during the occurrence of a vertical blanking while the [DATA ENABLE] signal is active.

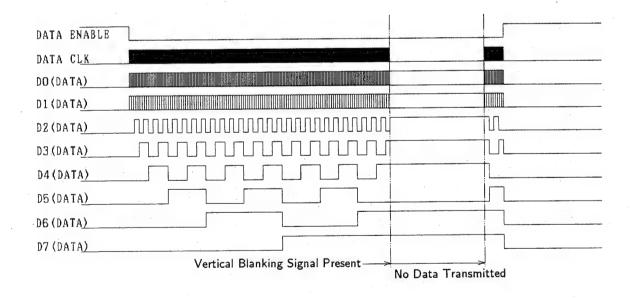


Fig.3 Example of FMY-8 board and SY-9 board PRINT Data Transmissions

1-12-3. Phase Match

This feature is provided so that the phase of the input signal and the MEMORY OUT signal may be aligned on the monitor. A phase difference between the SYNC and VIDEO signals occurs due to the fact that the pass through which the input signals pass depends on that input signal's type. Accordingly, since the MEMORY OUT signal does not pass through any pass at all no such phase difference occurs. Accordingly, the phase of the SYNC and VIDEO signals of the input signal and MEMORY OUT signal (output after first strong that same input signal in memory) will not match due to this deviation. Since the input phase is fixed as long as the user's signal source is fixed, this Phase Match function is provided to exactly match the MEMORY OUT signal output with the phase of the input signal. The MEMORY OUT signal can be shifted right in steps of 22 sampling clocks, or left in steps of 36 sampling clocks.

1-12-4, CHECK

The picture tube display can be made to disappear by continuously holding down the \supset key.

1-12-5. MENU 1

[MENU 1] can be entered without leaving service mode by pressing the |>| key.

1-12-6. Total number of Printed Sheets Check

This check gives the total number of sheets that this printer has printed up to now. This can be used to predict the remaining life of the thermal head.

1-12-7. Sensor Level

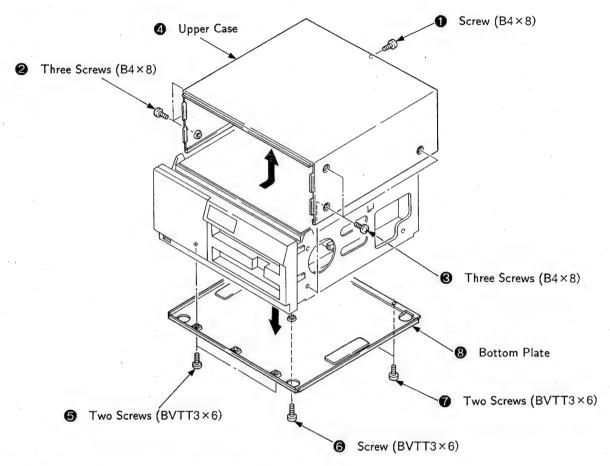
This feature displays the sensor level. Note that this is not a realtime display. The value displayed is that stored in memory from the last time service mode was entered. If you wish to see as recent a value as possible, simultaneously press the MEMORY-IN and STOP keys.

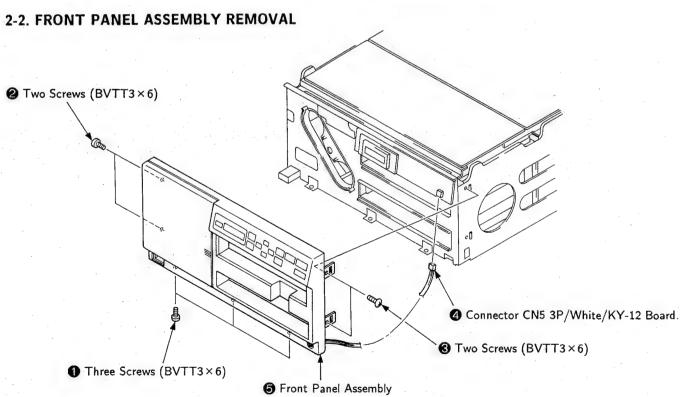
1-12-8. Thermal Head Temperature

This fearure converts the voltage used by the thermistor built into the thermal head and displays it as a digital temperature value. Although the value represents temperature, the reading is not in any standard units of temperature. The value decreases as voltage is applied to the head and its temperature rises. The display is in realtime if nothing is currently being printed. During printing the value stored in memory immediately prior to printing is displayed.

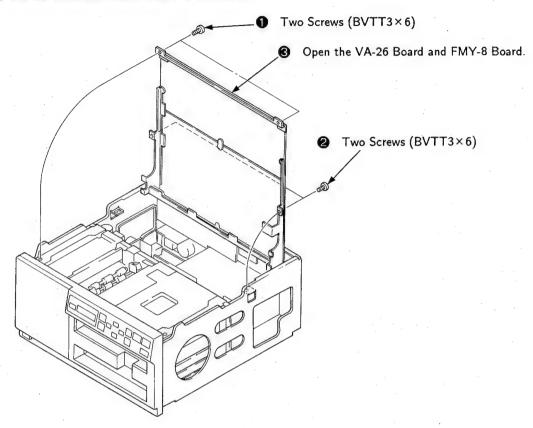
SECTION 2 DISASSEMBLY

2-1. CABINET REMOVAL

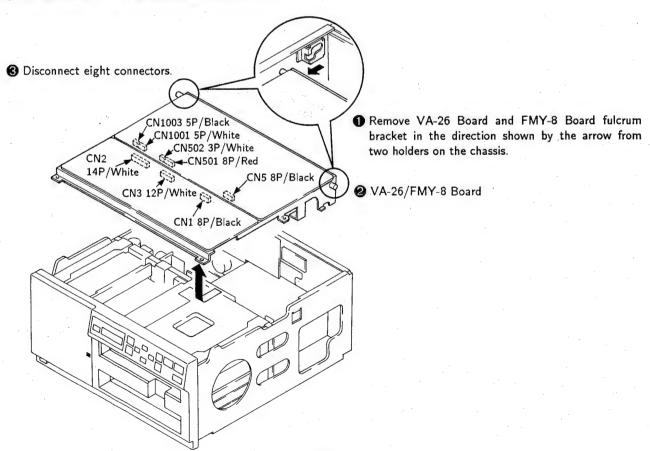




2-3. HOW TO OPEN VA-26 BOARD AND FMY-8 BOARD

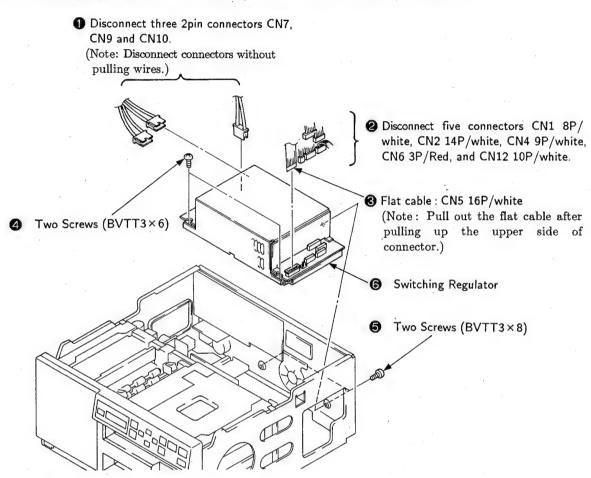


2-4. VA-26 AND FMY-8 BOARD REMOVAL



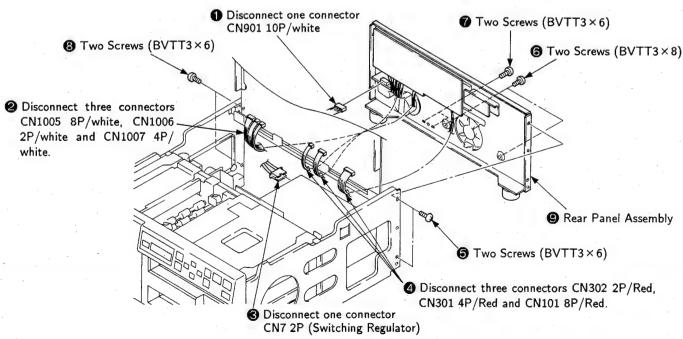
2-5. SWITCHING REGULATOR REMOVAL

Note: Remove switching regulator after VA-26 board and FMY-8 board removal. (See Item 2-4.)

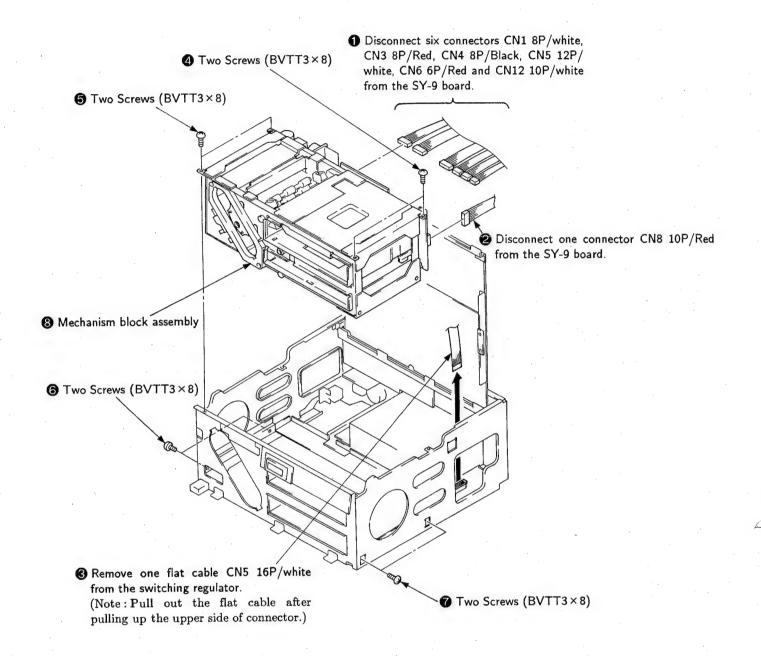


2-6. REAR PANEL ASSEMBLY REMOVAL

Note: Remove rear panel assembly after opening VA-26/FMY-8 board. (See Item 2-3.)

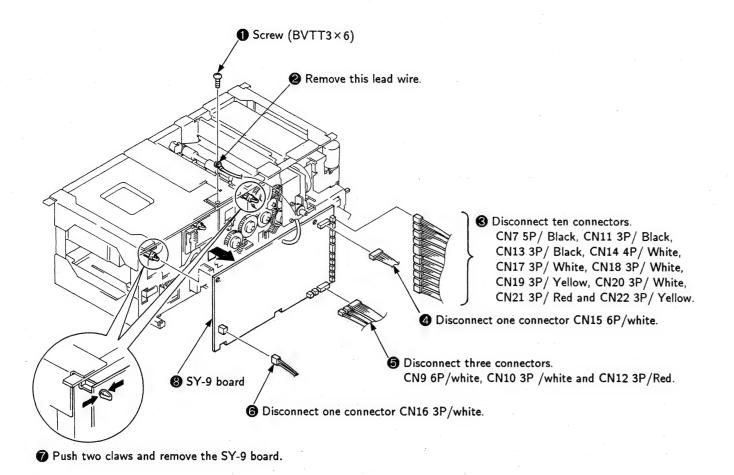


2-7. MECHANISM BLOCK ASSEMBLY REMOVAL

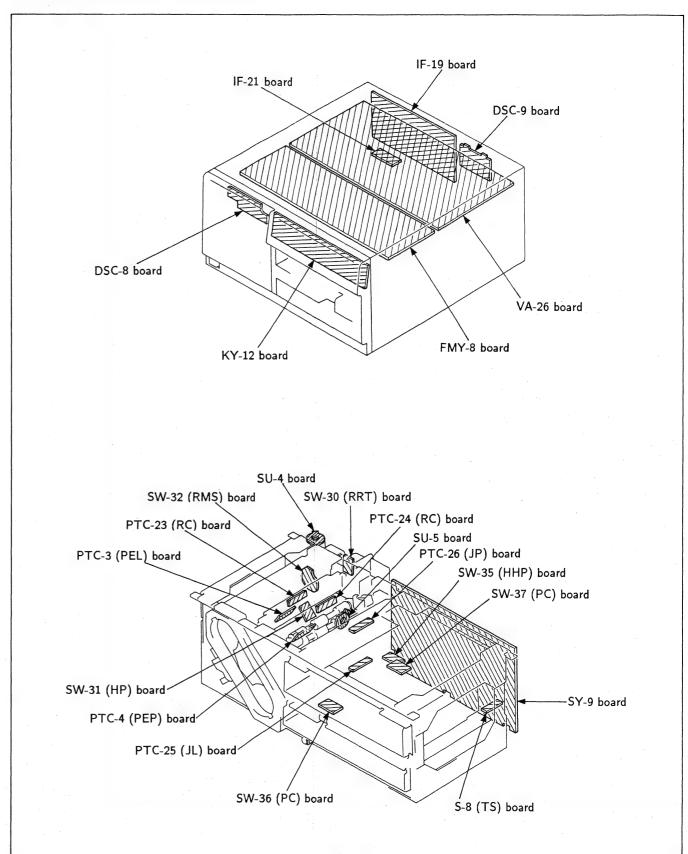


SECTION 3 DIAGRAMS

2-8. SY-9 BOARD REMOVAL

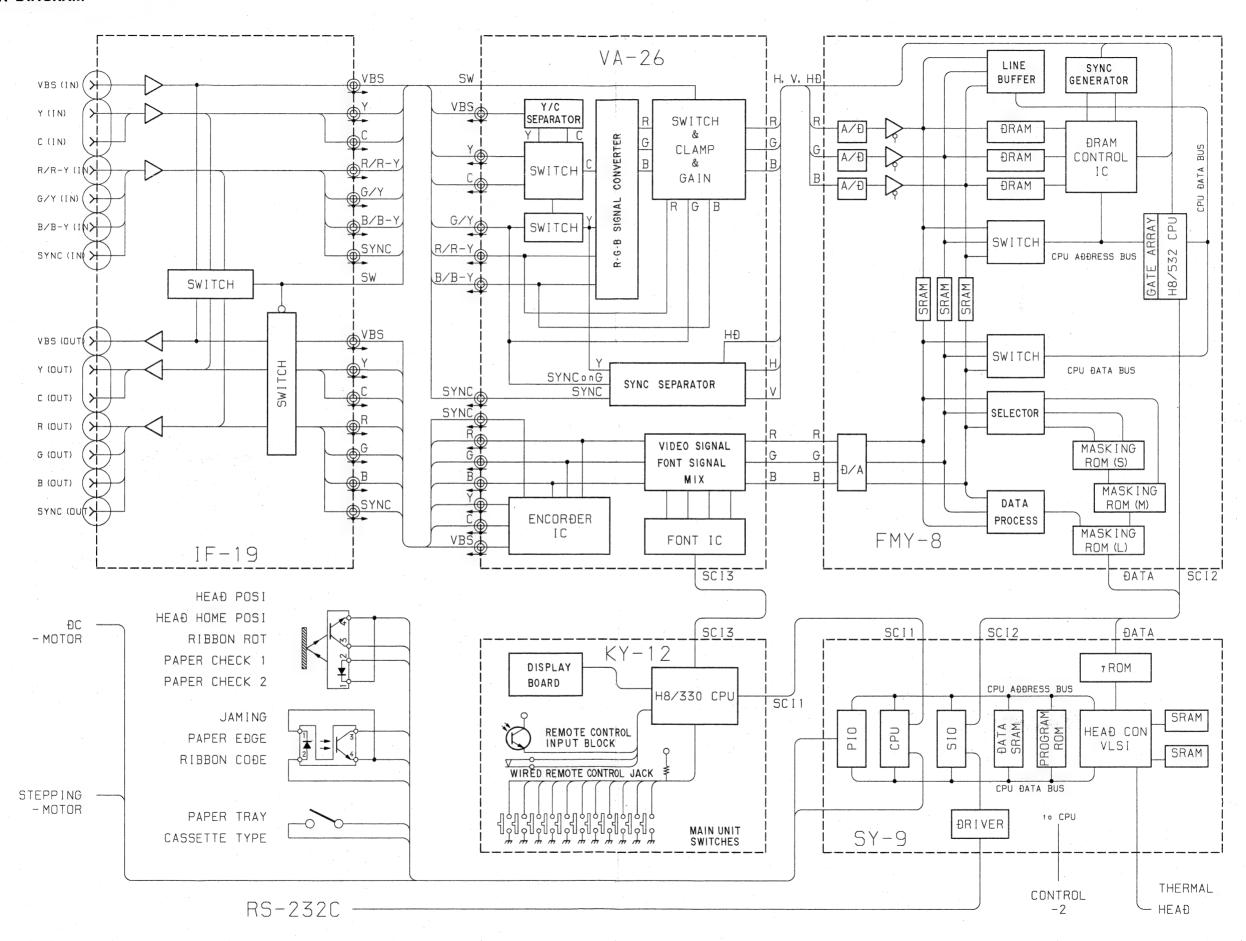


3-1. CIRCUIT BOARDS LOCATION



UP-5200MD/5250MD

3-2. BLOCK DIAGRAM



SECTION 4 PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

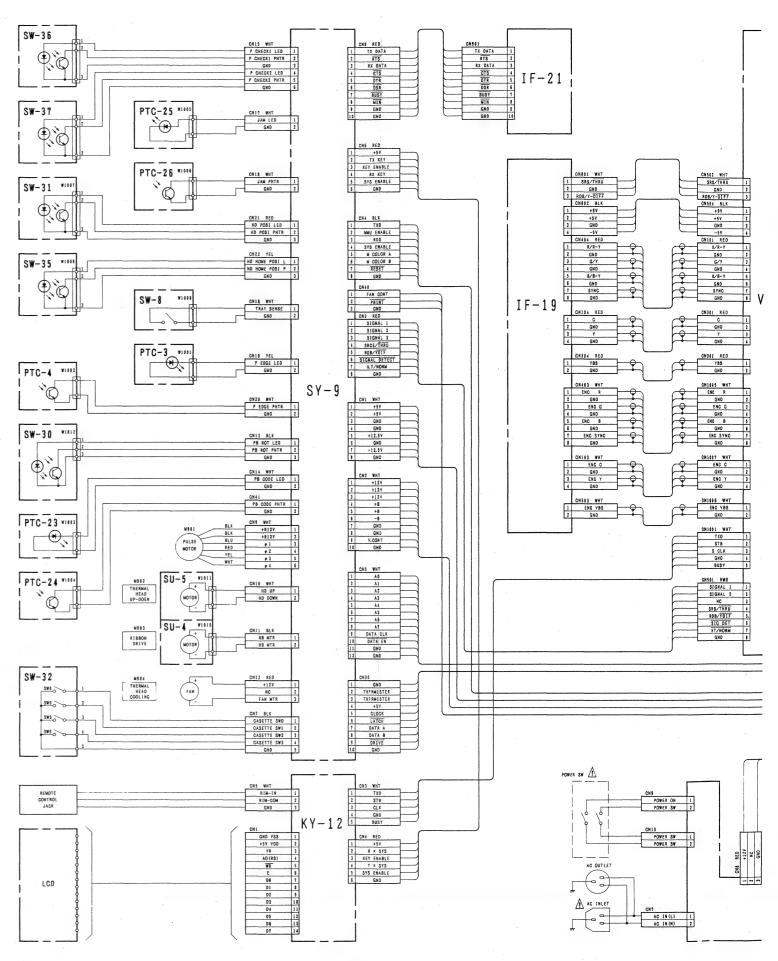
4-1. FRAME SCHEMATIC DIAGRAM

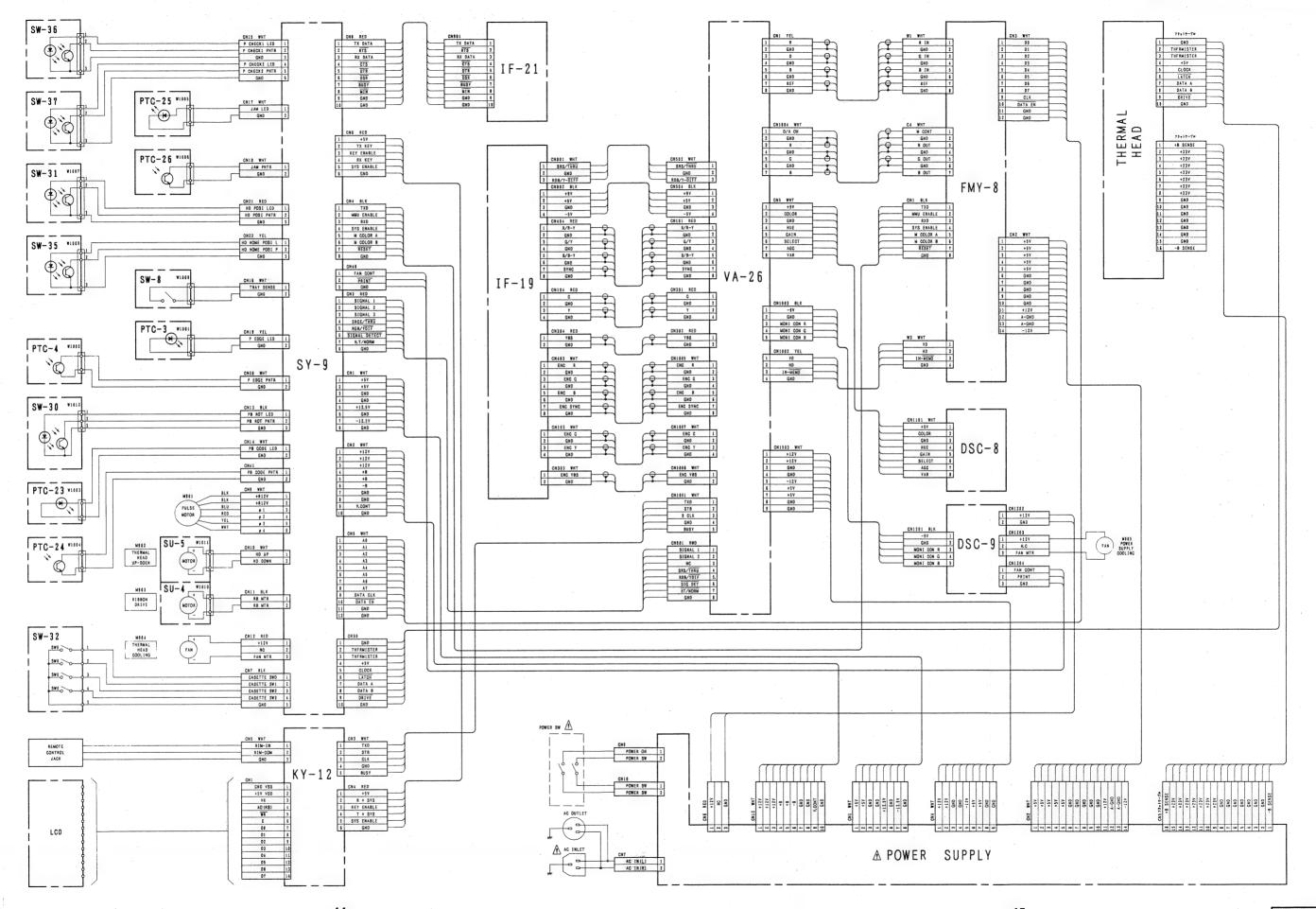
THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.

(In addition to this, the necessary note is printed in each block.)

- For schematic diagrams.
- Caution when replacing chip parts.
 New parts must be attached after removal of chip.
 Be careful not to heat the minuts side of tantalum capacitor, because it is damaged by the heat.
- All resistors are in ohms, 1/10W unless otherwise noted. $k\Omega$: 1000 Ω , $M\Omega$: 1000 $k\Omega$.
- All capacitors are in μF unless otherwise noted. pF: μ μF.
 50V or less are not indicated except for electrolytics and tantalums.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- monflammable resistor.
- fusible resistor.
- _____ : panel designation.
- ____ : adjustment for repear.
- --- ; B+ Line.
- ---- : B- Line.
- · Voltages are dc between ground and measurement points.
- Readings are taken with a color-bar signal playback.
- Readings are taken with a digital multimeter (DC10M Ω).
- Voltage variations may be noted due to normal production tolerances.

Note: Les composants identifiés par une trame et par une marque A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.





JP-5200MD/5250MD

FL302

FL401 FL402 FL501 FL502 FL601 FL602

FL701 FL702

IC101 IC201 IC301 IC401 IC501 IC601 IC701

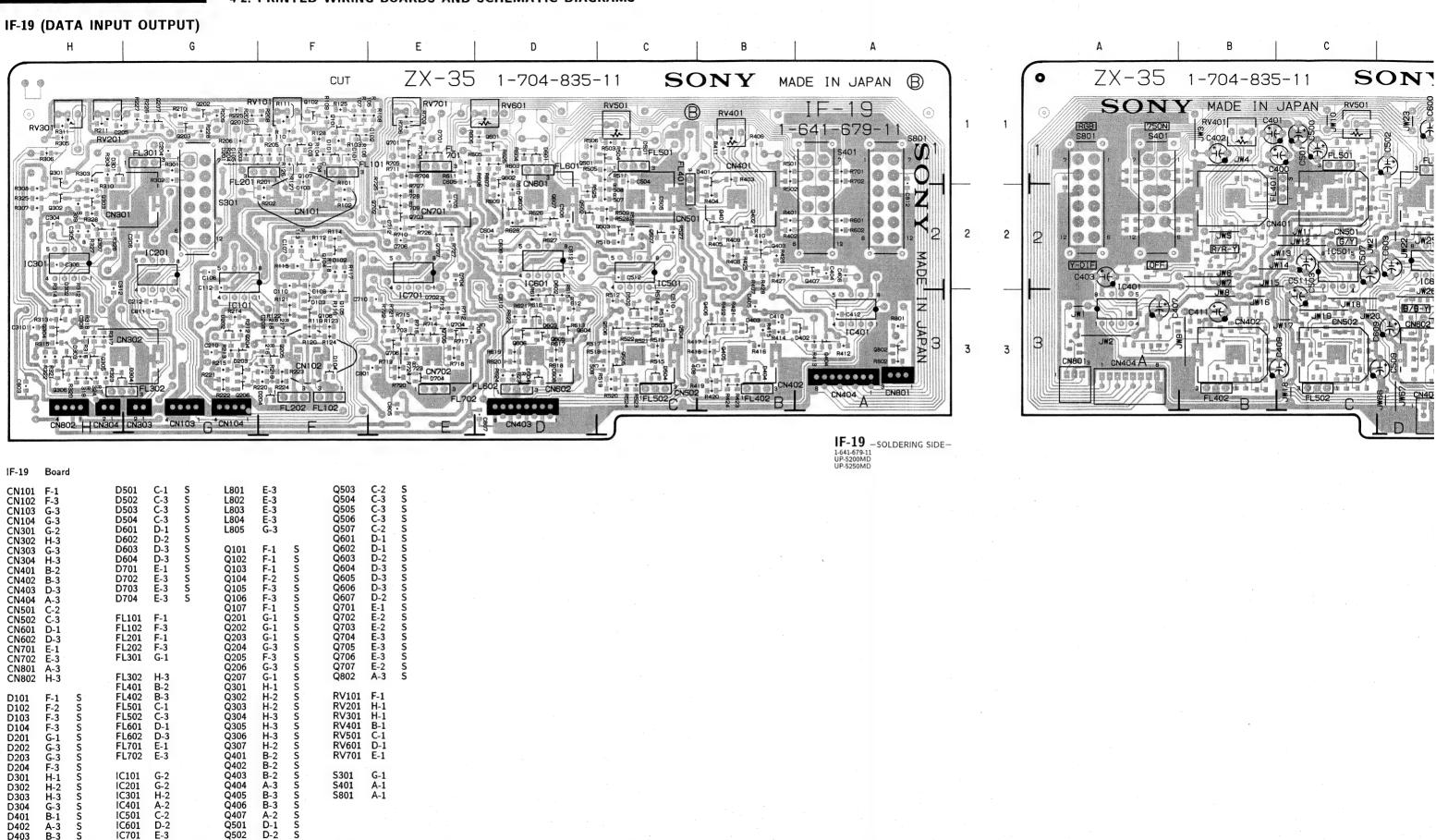
D101 D102 D103

F-1 F-2 F-3 F-3 G-3 G-3 F-3 H-1 H-2 H-3 G-3 B-1 B-3

H-3 B-2 B-3 C-1 C-3 D-1 D-3 E-1 E-3

G-2 G-2 H-2 A-2 C-2 D-2 E-3

4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS



RV101 F-1 RV201 H-1 RV301 H-1

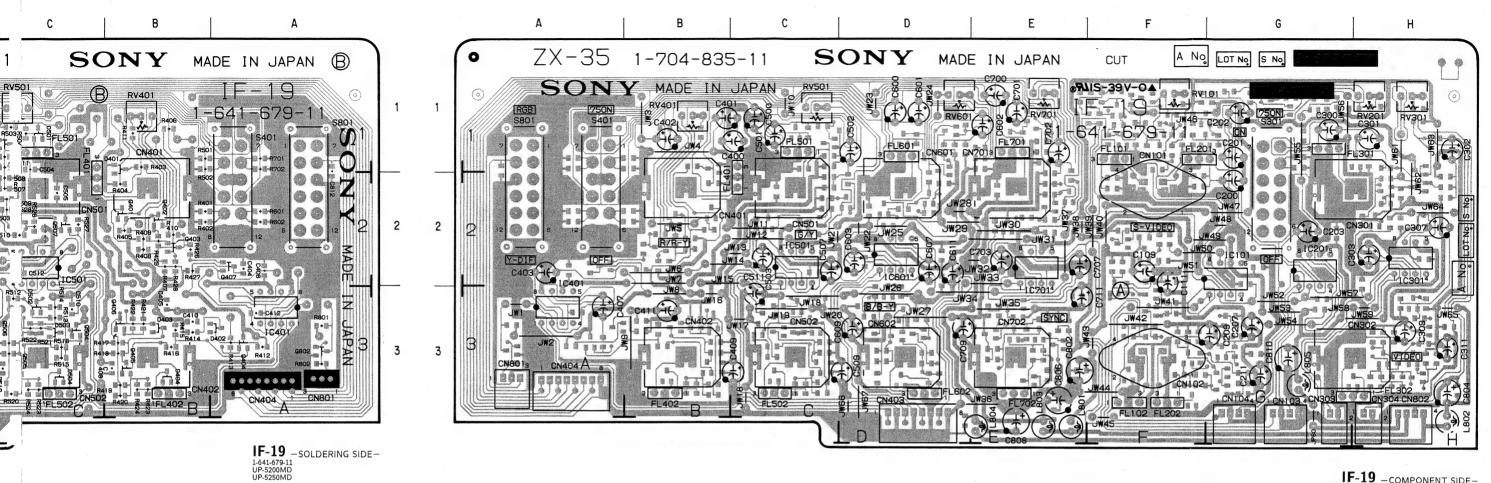
RV401

RV601 RV701

S301 S401

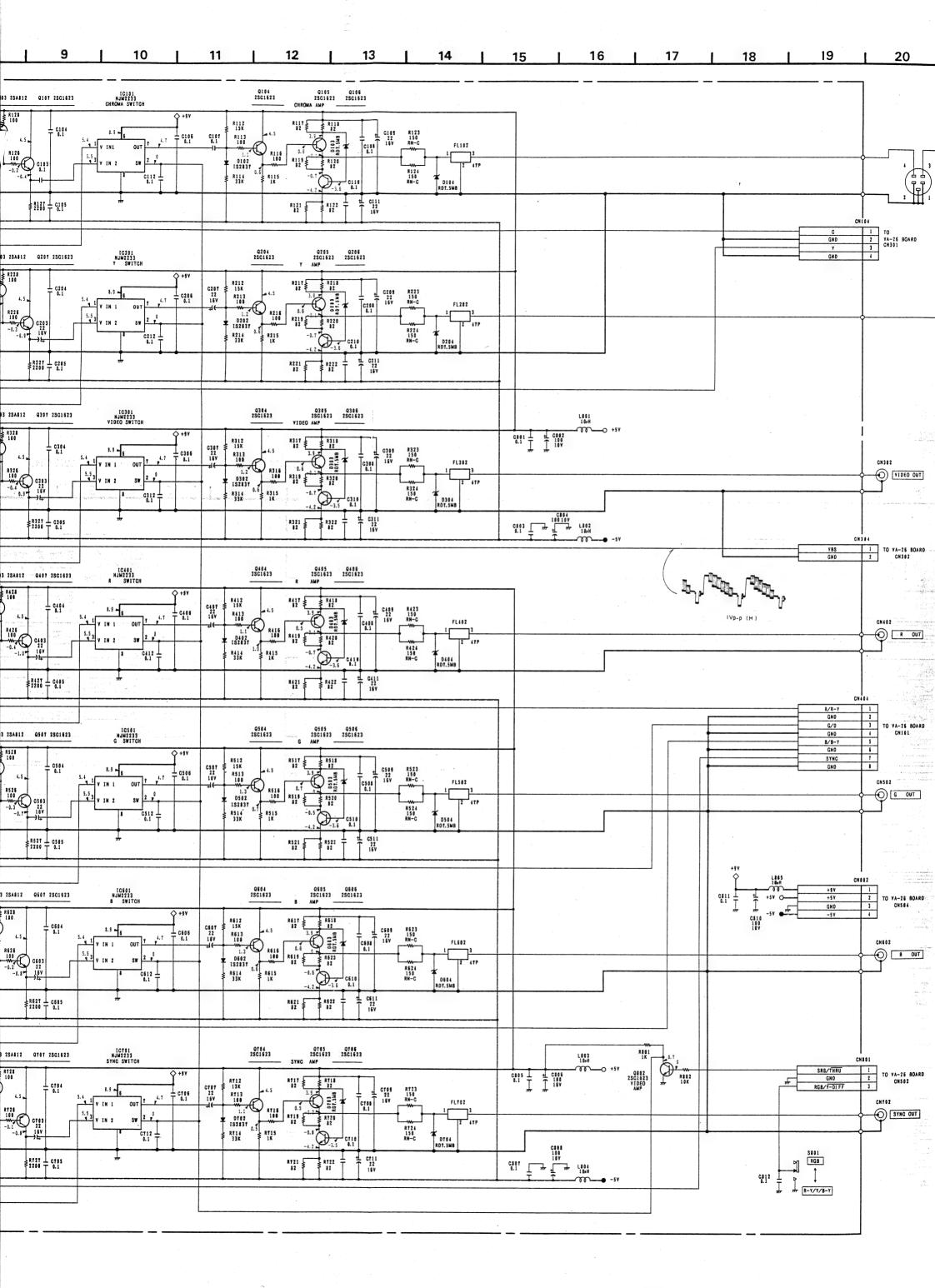
B-1 C-1 D-1

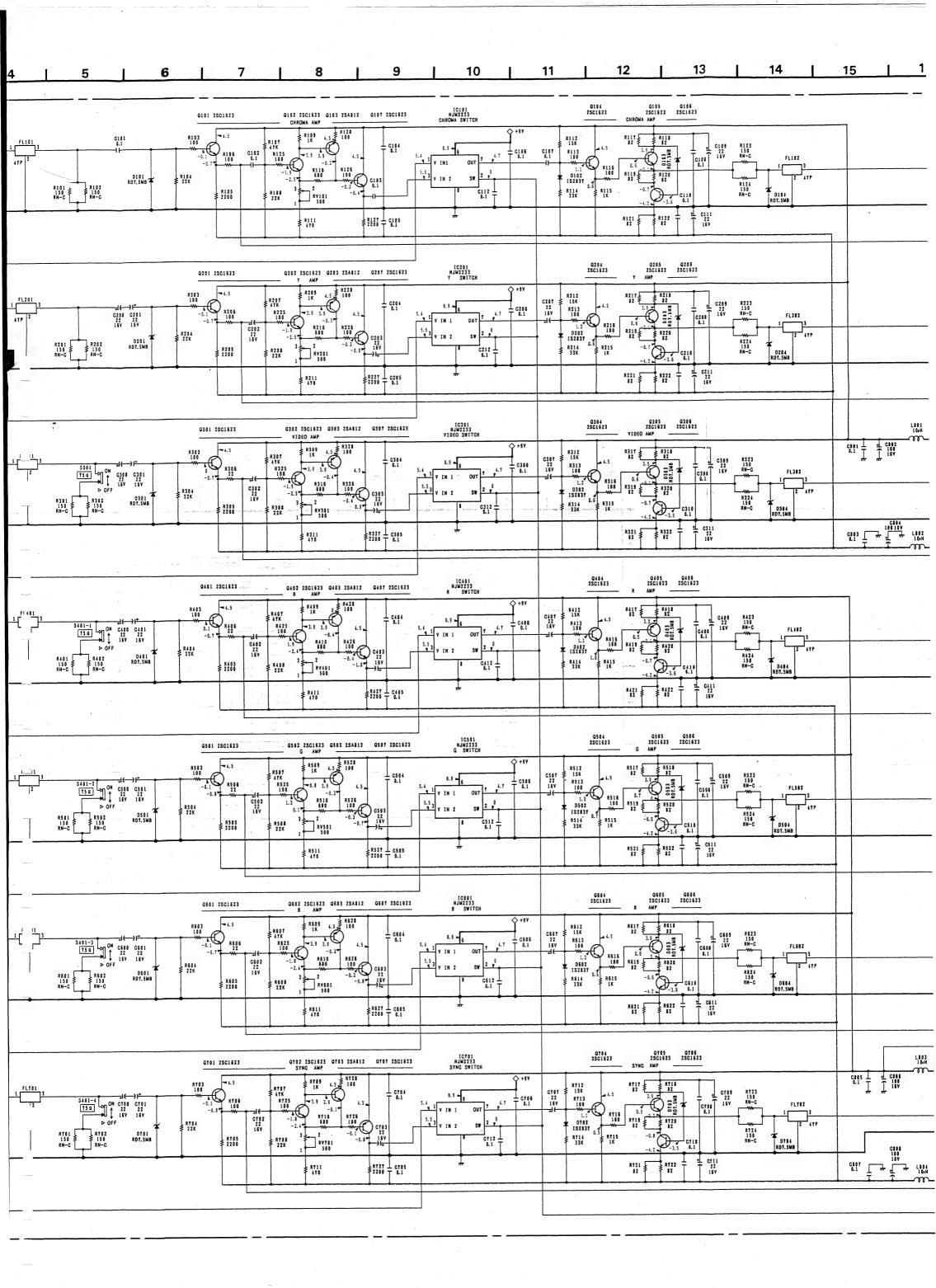
G-1 A-1 A-1

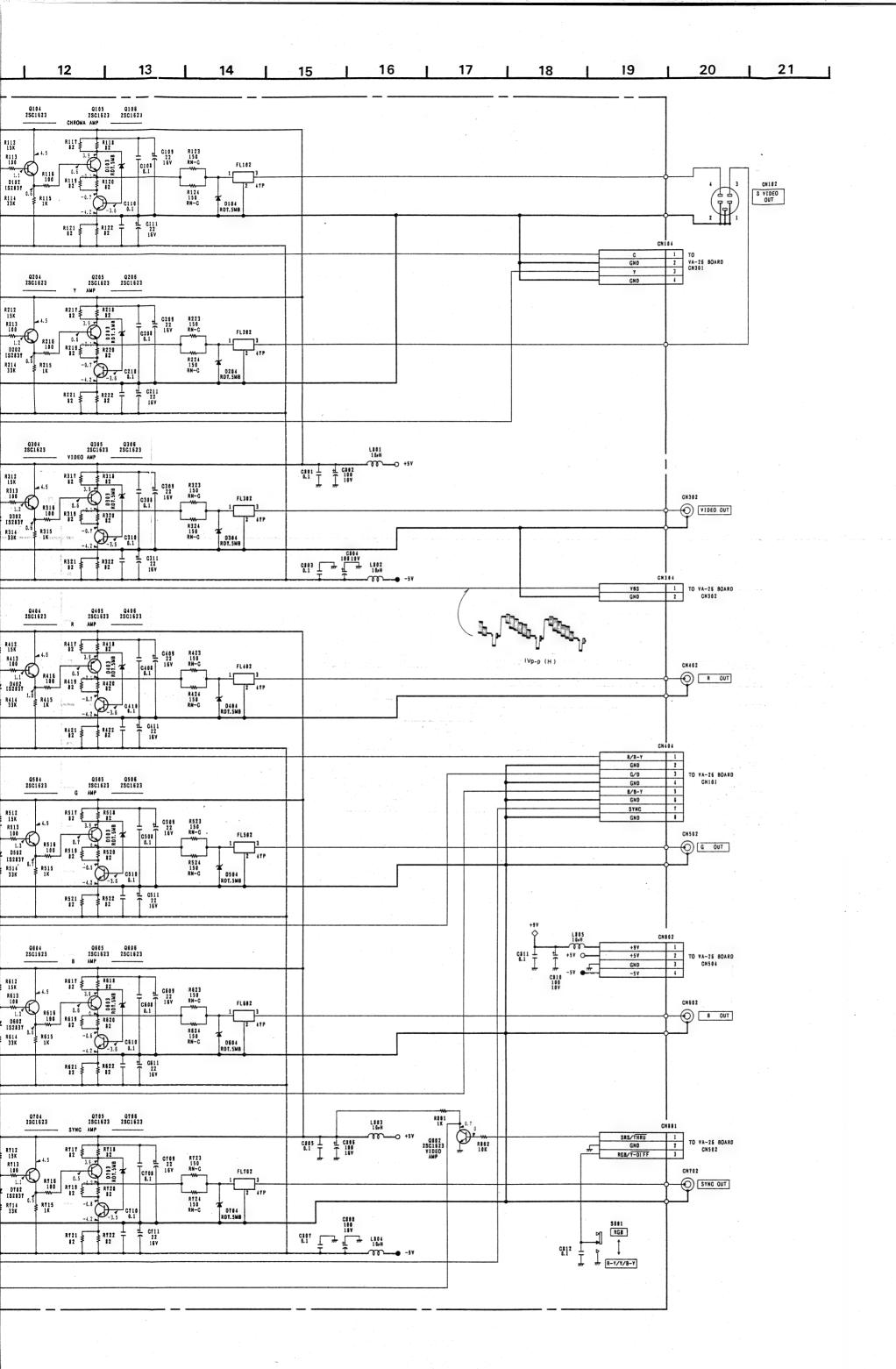


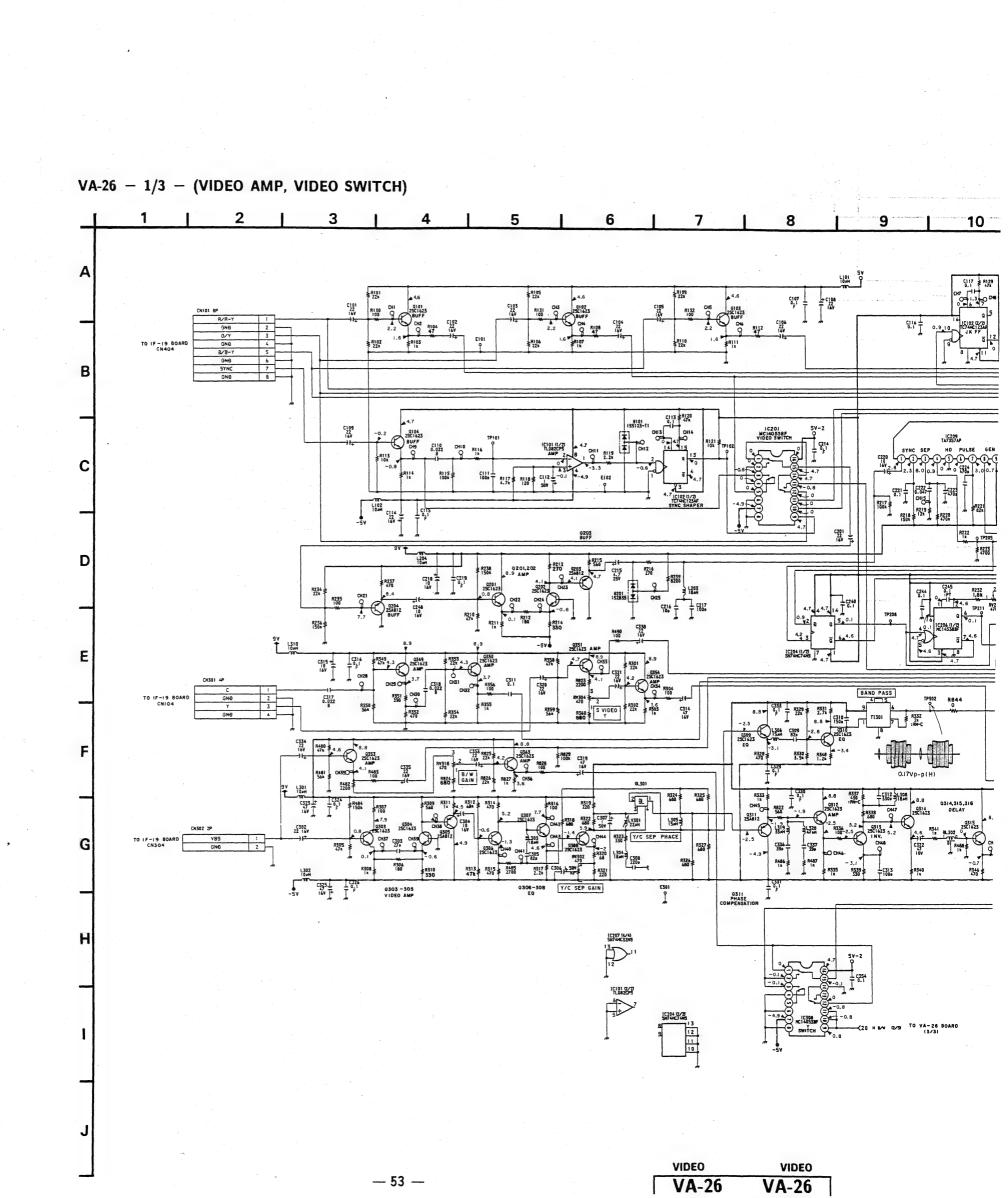
IF-19 - COMPONENT SIDE-1-641-679-11 UP-5200MD UP-5250MD

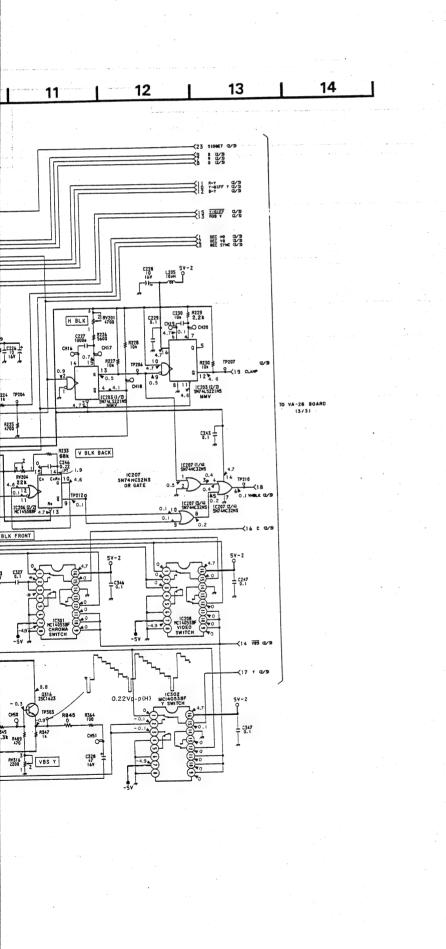
DATA I/O DATA I/O
IF-19 IF-19

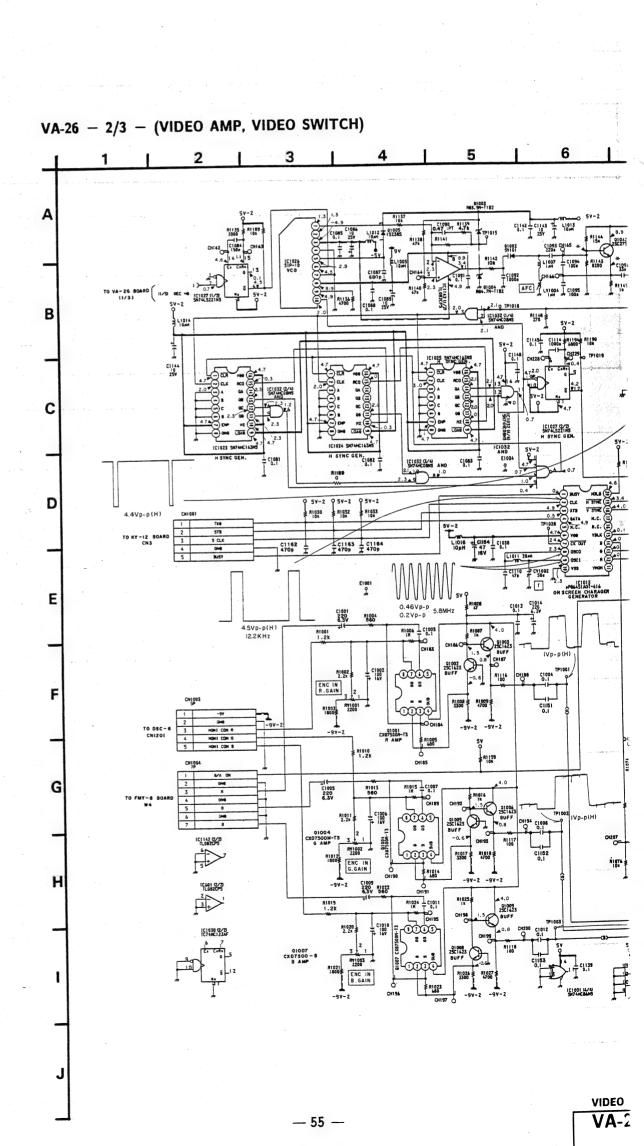


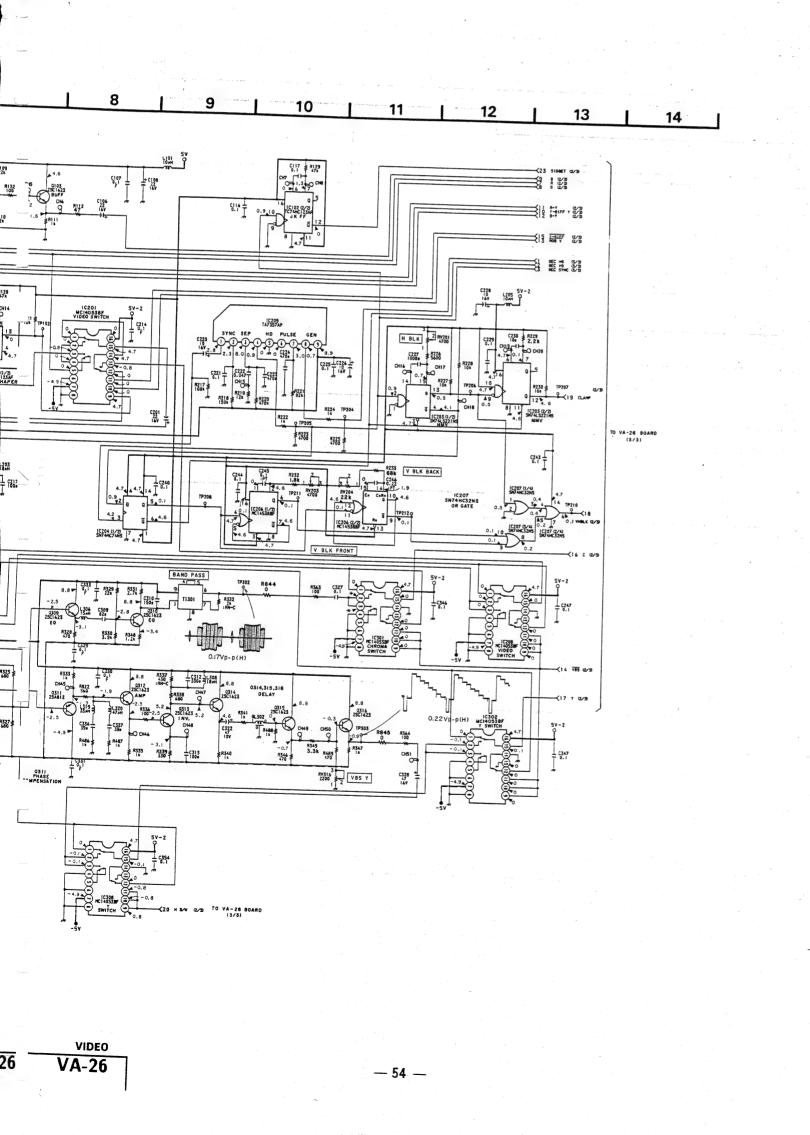






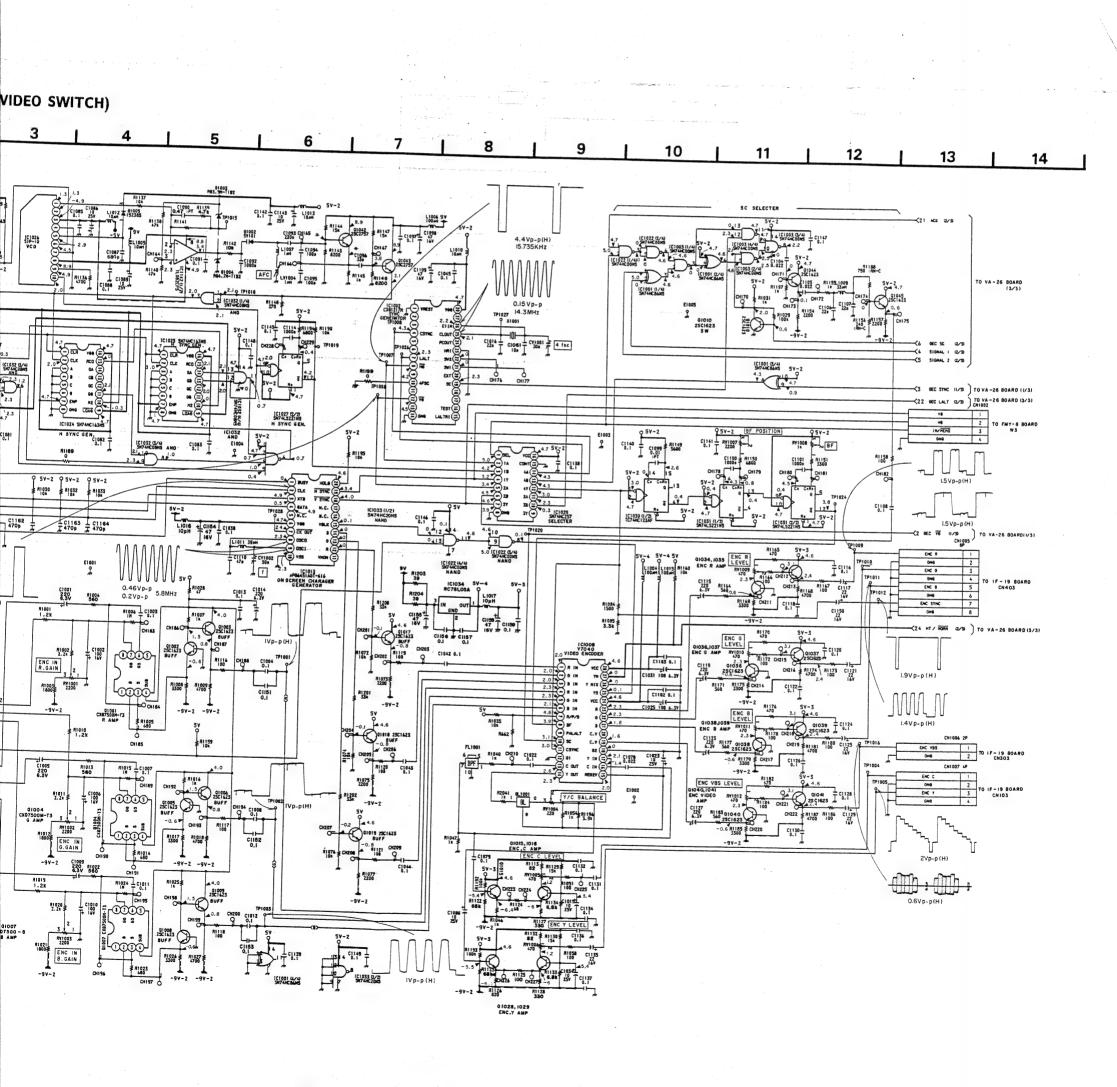






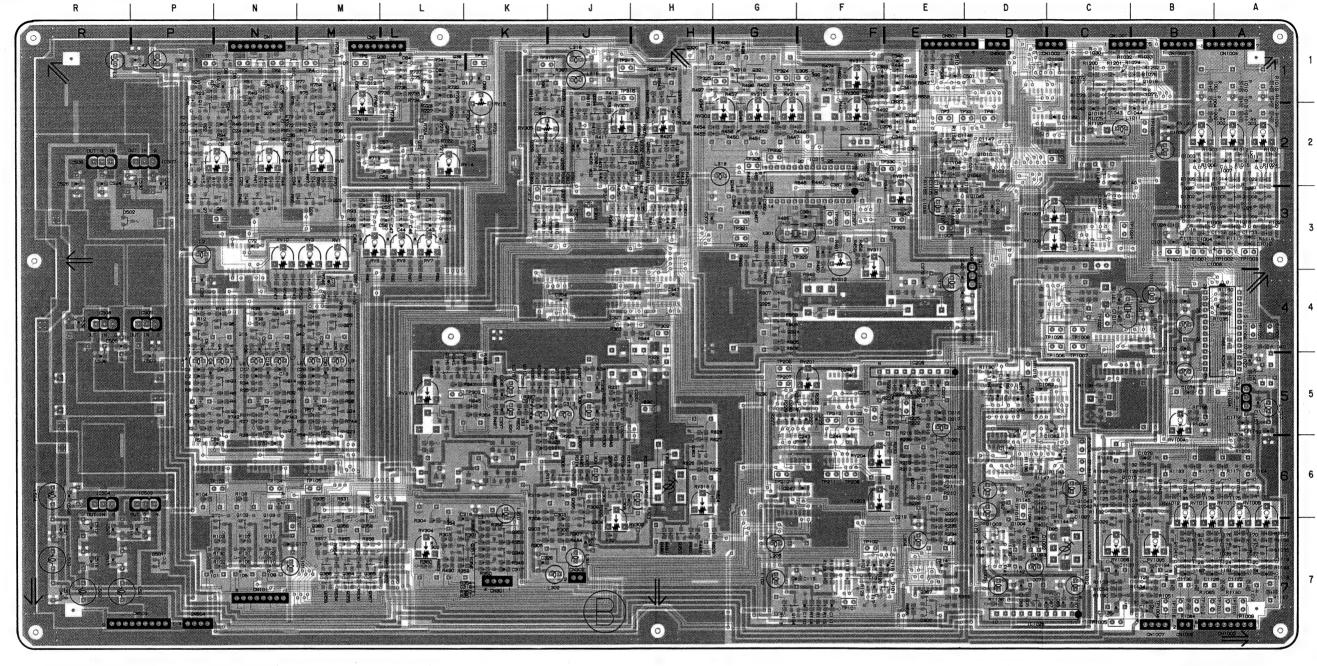
VA-26 - 2/3 - (VIDEO AMP, VIDEO 4.5Vp-p(H) G AM

— 55 –



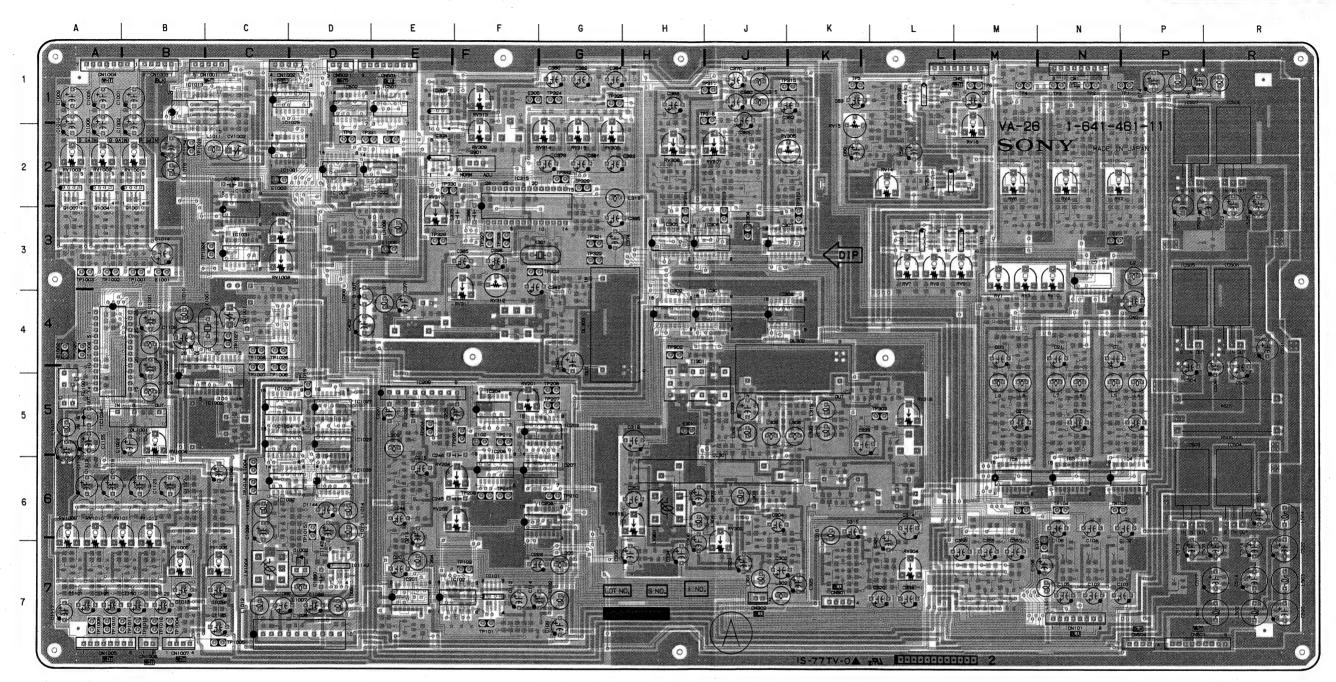
– 55 *–*–

VA-26 (VIDEO AMP, VIDEO SWITCH)



VA-26 -SOLDERING SIDE-1-641-461-11 UP-5200MD

VA-26 Board																														
CN1 N-1 CN5 M-1	CV1002 C-	-2		D1003 D1004	D-7 D-7	S S		C-6 E-3	IC208 IC209	G-6 E-5	IC507 IC508	P-1 R-3	IC1032 IC1033			Q14 Q15	N-5 N-4	S	Q32 Q33	M-2 M-4	S	Q306 Q307	J-6 J-6	S	Q325 Q326	G-4	S	Q349 Q350	K-7 K-7	S
CN101 N-7	D4 M	-1	S	D1005	D-7	S			IC301	J-4	IC701	L-2	IC1034			Q16	N-4	Š	Q35	L-2	Š	Q308	J-6	Š	Q327	J-3	Š	Q351	K-7	Š
CN301 K-7	D5 L-	-2	S				FL1001	A-5	IC302	H-4	IC702	L-1	IC1142	D-7		Q17	N-4	S	Q36	L-2	S	Q309	J-6	S	Q328	J-2	Š	Q353	Ĥ-7	Š
CN302 J-7	D6 N-		S	DL301					IC303	E-1	IC1001					Q18	N-3	S	Q37	K-2	S	Q310	J-5	S	Q329	K-2	S	Q354	L-7	S
CN501 E-1	D7 M		S	DL302			IC2	L-3	IC304	E-1	IC1002		Q1	N-5	S	Q19	N-3	S	Q38	L-1	S	Q311	K-5	S .	Q330	H-3	S	Q355	M-7	
CN502 D-1	D8 N-		S	DL303			IC3	M-3	IC305		IC1003		Q2	N-5	5	Q20	N-2	S	Q39	M-1	S .	Q312	K-5	S	Q331	J-2	S	Q356	M-7	
CN503 P-7	D9 N-		S	DL1001	B-5		IC4	P-6	IC306	J-3	IC1008		Q3	N-5	<u>S</u> .	Q21	N-2	S	Q40	N-4	S	Q313	J-5	5	Q332	H-2	S	Q357	M-7	S
CN504 P-7	D10 N-		٥	E1	M 2		IC5	N-6	IC307	J-3	IC1013		Q4	N-4	5	Q22	N-2	٥	Q101	P-6	5	Q314	J-5	5	Q333	J-2	S	Q358	M-7	S
CN1001 B-1 CN1002 C-1	D11 L- D12 M		S	E1 E101	N-3 M-7		IC6 IC7	M-6 N-3	IC308 IC309	J-4 D-4	IC1022 IC1023		Q5	P-4 N-3	2	Q23 Q24	M-5 M-5	2	Q102 Q103	N-6 N-6	5	Q315 Q316	K-5	٥	Q334	J-1	ک	Q359	M-7	Ş
CN1002 C-1 CN1003 B-1	D12 W		Š	E101	F-5		IC101	F-7	IC315	F-2	IC1023		Q0 07	P-3	3	Q24 Q25	M-5	S	Q103	G-7	S	Q318	L-5 G-4	2	Q335 Q338	H-1 H-3	2	Q360	M-7 H-6	2
CN1003 B-1 CN1004 A-1	D201 E-		Š	E301	H-5			F-7	IC513	E-1	IC1024		08	N-3	Š	Q25	M-4	Š	Q201	E-6	ς	Q319	G-4	ζ	Q339	H-2	S	Q363 Q364	п-о M-7	2
CN1005 A-7	D301 E-		Š	E304	J-3			E-7	IC502	D-1	IC1026		Q9	P-2	Š	Q27	M-4	Š	Q202	E-6	Š	Q320	H-1	Š	Q340	H-2	ζ	Q365	M-7	Š
CN1006 B-7	D302 E-	-7	S	E305	F-1		IC203	G-5	IC503	P-5	IC1027		Q10	P-2	Š	Q28	M-3	Š	Q203	Ē-6	S	Q321	G-1	Š	Q345	G-1	š	Q366	M-7	Š
CN1007 B-7	D501 P-		S	E1001	B-3		IC204	F-5	IC504	R-5	IC1029		Q11	P-1	S	Q29	M-3	S	Q204	E-6	S	Q322	G-1	S	Q346	G-2	Š	Q367	E-7	Š
	D502 R-		S	E1002	A-4			F-5	IC505	P-3	IC1030	C-2	Q12	N-5	S	Q30	N-2	S	Q303	K-7	S	Q323	G-3	S	Q347	H-1	S	Q1001		-
CV1001 C-4	D1002 D-	-7		E1003	C-2		IC207	G-6	IC506	R-1	IC1031	C-3	Q13	N-5	S	Q31	N-2	S	Q304	J-7	S	Q324	G-4	S	Q348	G-2	S	Q1002		S



VA-26 -COMPONENT SIDE-

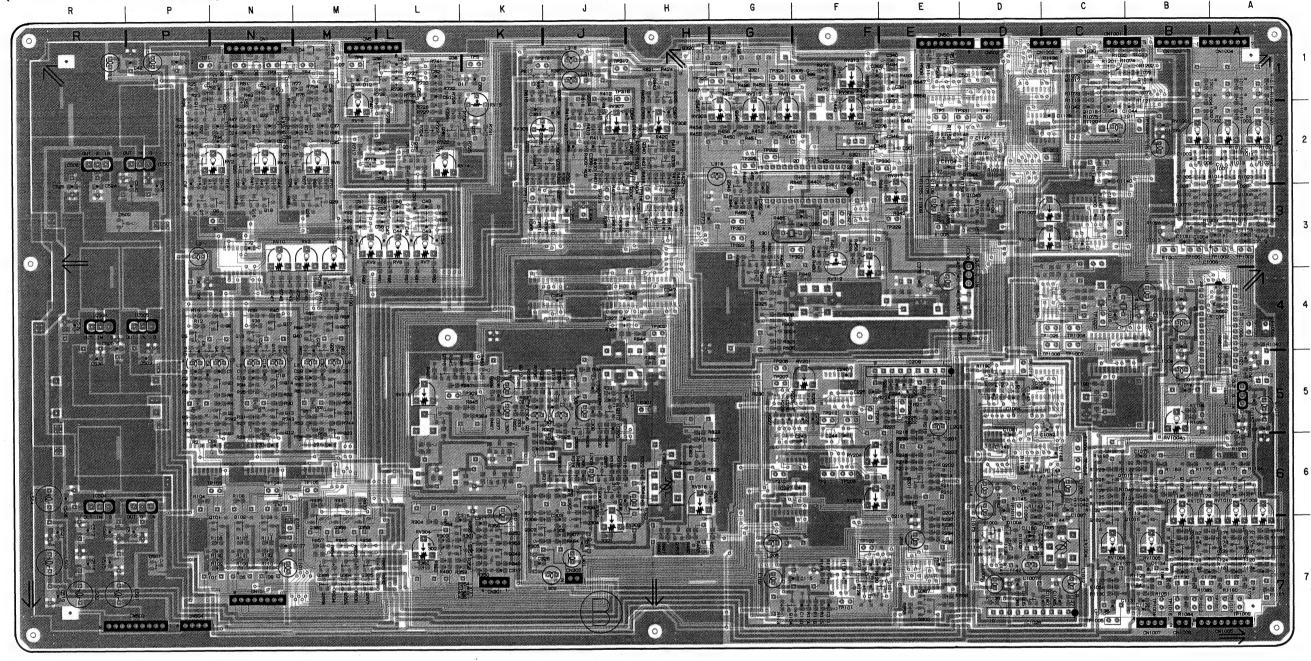
Conductor side pattern

• Component side pattern

TP208 F-6
TP210 G-6
TP211 F-6
TP212 F-5
TP302 H-4
TP303 L-5
TP313 J-2
TP314 H-2
TP315 J-1
TP315 J-1 RV315 G-2 RV316 L-5 RV317 E-2 RV318 G-6 RV1001 B-2 RV1002 A-2 RV1003 A-2 RV1004 B-5 TP327 F-3 TP328 F-3 TP329 E-3 TP330 E-2 TP331 D-2 TP601 C-3 TP1001 B-3 TP1015 D-7 TP1016 B-7 TP1018 C-6 TP1019 D-5 TP1020 A-4 B-3 A-3 A-3 A-3 A-3 D-2 C-6 B-7 C-1 C-7 A-6 A-7 B-6 Q1037 Ti301 N-4 L-2 K-2 F-5 E-6 J-6 J-2 J-2 J-2 F-2 F-4 F-4 Q1004 Q1005 Q1006 Q1007 Q1008 Q1038 Q1039 Q1040 Q1041 Q1042 TP1 TP2 TP3 A-7 B-6 B-7 C-6 C-6 D-2 RV15 RV16 RV201 RV203 RV204 S S TP3 N-1
TP4 M-1
TP5 K-1
TP6 M-1
TP7 E-2
TP8 D-2
TP101 F-7
TP102 F-7
TP103 N-6
TP104 N-6
TP105 M-6
TP204 E-5
TP206 G-5
TP206 G-5
TP207 G-5 TP1024 B-3 Q1009 Q1043 TP1026 C-4 Q1010 Q1044 RV302 TP1002 A-3 TP1027 C-4 Q1045 D-3 **RV303** RV1005 B-7 TP1003 A-3 TP1004 B-7 TP1005 C-7 TP1028 B-2 Q1016 Q1017 Q1018 Q1019 RV304 RV305 RV307 RV308 RV1006 C-7 RV1007 C-3 RV1008 C-3 RV1009 A-6 RV1010 A-6 RV1011 A-6 RV1 RV2 RV3 J-1 J-1 G-3 G-3 G-3 G-1 G-1 M-4 N-2 M-4 X301 F-3 X1001 C-4 **TP316** TP317 TP321 TP322 TP323 TP1006 C-5 TP1007 C-5 TP1008 C-4 N-2 M-2 L-3 L-3 M-3 Q1028 RV4 **RV309** TP1006 C-4 TP1009 A-7 TP1010 A-7 TP1011 B-7 TP1012 B-7 RV6 **RV311** Q1034 RV7 RV1012 B-6 TP324 Q1035 Q1036 RV8 RV313 TP325 S301 F-2 RV9 RV314 **TP207**

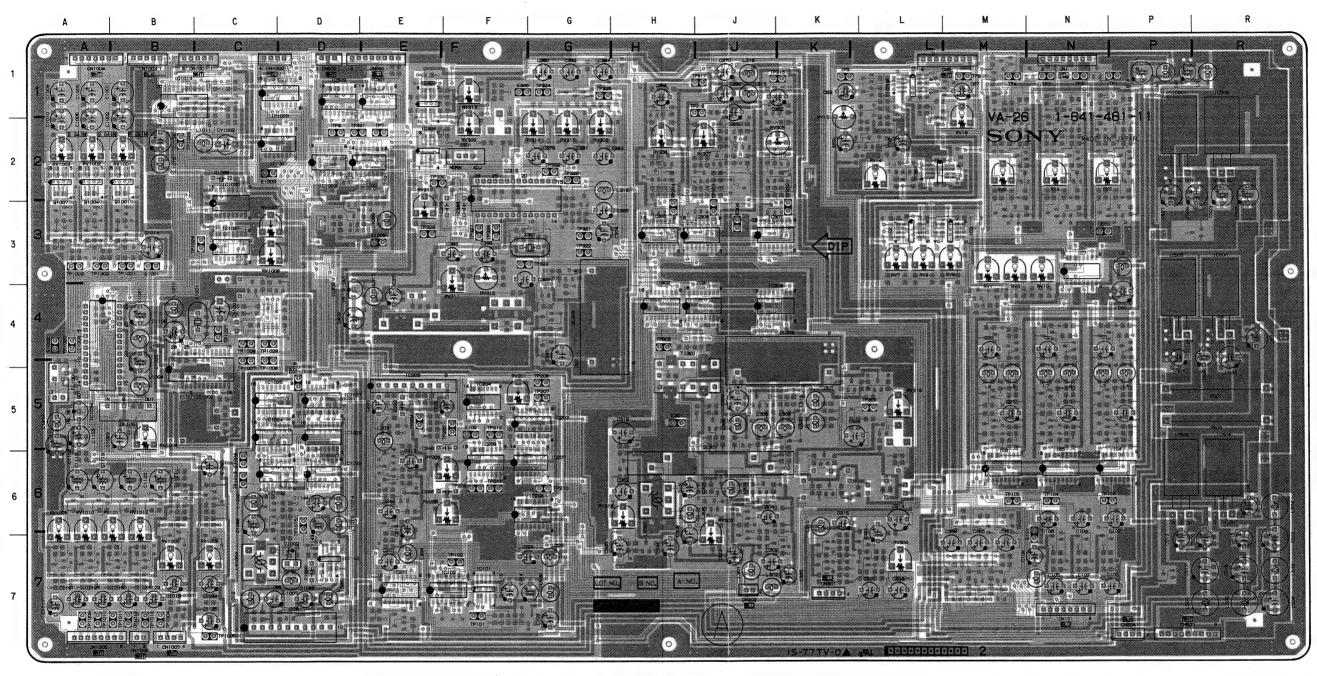
UP-5200MD/5250MD

VA-26 (VIDEO AMP, VIDEO SWITCH)



VA-26 1-641-461-11 UP-5200MD UP-5250MD

VA-26 Board									•	
CN1 N-1	CV1002 C-2	D1003 D-7 S	E1004 C-6	IC208 G-6	IC507 P-1	IC1032 C-6	Q14 N-5 S	Q32 M-2 S Q306 J-6 S	Q325 G-4 S	Q349 K-7 S Q350 K-7 S
CN5 M-1		D1004 D-7 S	E1005 E-3	IC209 E-5	IC508 R-3	IC1033 D-6	Q15 N-4 S	Q33 M-4 S Q307 J-6 S Q35 L-2 S Q308 J-6 S	Q326 J-1 S Q327 J-3 S	Q350 K-7 S Q351 K-7 S
CN101 N-7	D4 M-1 S	D1005 D-7 S	E1 1001 A E	IC301 J-4	IC701 L-2 IC702 L-1	IC1034 A-5 IC1142 D-7	Q16 N-4 S Q17 N-4 S	Q36 L-2 S Q309 J-6 S	Q328 J-2 S	Q353 H-7 S
CN301 K-7	D5 L-2 S D6 N-1 S	DL301 J-5	FL1001 A-5	IC302 H-4 IC303 E-1	IC1001 C-2	1C1142 D-7	Q18 N-3 5	Q37 K-2 S Q310 J-5 S	Q329 K-2 S	Q354 L-7 S
CN302 J-7 CN501 E-1	D6 N-1 S D7 M-1 S	DL301 3-3 DL302 K-4	IC2 L-3	IC304 E-1	IC1002 C-5	Q1 N-5 S	Q19 N-3 S	Q38 L-1 S Q311 K-5 S	Q330 H-3 S	Q355 M-7 S
CN502 D-1	D8 N-1 S	DL303 G-4	IC3 M-3	IC305 H-3	IC1003 D-2	Q2 N-5 S	Q20 N-2 S	Q39 M-1 S Q312 K-5 S Q40 N-4 S Q313 J-5 S	Q331 J-2 S Q332 H-2 S	Q356 M-7 S Q357 M-7 S
CN503 P-7	D9 N-1 S	DL1001 B-5	IC4 P-6	IC306 J-3	IC1008 A-4 IC1013 B-1	Q3 N-5 S Q4 N-4 S	Q21 N-2 5 Q22 N-2 5	Q40 N-4 S Q313 J-5 S Q101 P-6 S Q314 J-5 S	Q333 J-2 S	Q358 M-7 S
CN504 P-7	D10 N-1 S D11 L-1 S	E1 N-3	IC5 N-6 IC6 M-6	IC307 J-3 IC308 J-4	IC1013 B-1 IC1022 E-2	Q5 P-4 S	Q23 M-5 5	Q102 N-6 S Q315 K-5 S	Q334 J-1 S	Q359 M-7 S
CN1001 B-1 CN1002 C-1	D11 L-1 3	E101 M-7	IC7 N-3	IC309 D-4	IC1023 D-5	Q6 N-3 S	Q24 M-5 5	Q103 N-6 S Q316 L-5 S	Q335 H-1 S	Q360 M-7 S
CN1003 B-1	D101 E-7 S	E102 F-5	IC101 F-7	IC315 F-2	IC1024 C-5	Q7 P-3 S	Q25 M-5 S	Q104 G-7 S Q318 G-4 S Q201 E-6 S Q319 G-1 S	Q338 H-3 S Q339 H-2 S	Q363 H-6 S Q364 M-7 S
CN1004 A-1	D201 E-6 S	E301 H-5	IC102 F-7 IC201 E-7	IC501 E-1 IC502 D-1	IC1025 C-5 IC1026 D-7	Q8 N-3 S Q9 P-2 S	Q26 M-4 S Q27 M-4 S	O202 F-6 S Q320 H-1 S	Q340 H-2 S	Q365 M-7 S
CN1005 A-7 CN1006 B-7	D301 E-2 S D302 E-7 S	E304 J-3 E305 F-1	IC201 E-7	IC502 D-1 IC503 P-5	IC1020 D-7	Q10 P-2 S	Q28 M-3 5	Q203 E-6 S Q321 G-1 S	Q345 G-1 S	Q366 M-7 S
CN1000 B-7	D502 L-7 S	E1001 B-3	IC204 F-5	IC504 R-5	IC1029 C-1	Q11 P-1 S	Q29 M-3 5	Q204 E-6 S Q322 G-1 S Q303 K-7 S Q323 G-3 S	Q346 G-2 S Q347 H-1 S	Q367 E-7 S Q1001 B-3
	D502 R-3 S	E1002 A-4	IC206 F-5	IC505 P-3	IC1030 C-2	Q12 N-5 S Q13 N-5 S	Q30 N-2 5 Q31 N-2 5	Q303 K-7 S Q323 G-3 S Q304 J-7 S Q324 G-4 S	Q348 G-2 S	Q1001 B-3 Q1002 B-3 5
CV1001 C-4	D1002 D-7	E1003 C-2	IC207 G-6	IC506 R-1	IC1031 C-3	Ø12 14-2 2	Q31 N-2 5	Q304 J-7 3 Q324 G4 G	40.0 02 0	Q1002 D 0
					VIDEO	VIDEO				
		6	1 —		VA-26	VA-26		— 62 —		
		- 0	· ±		VA-20	VM-20				

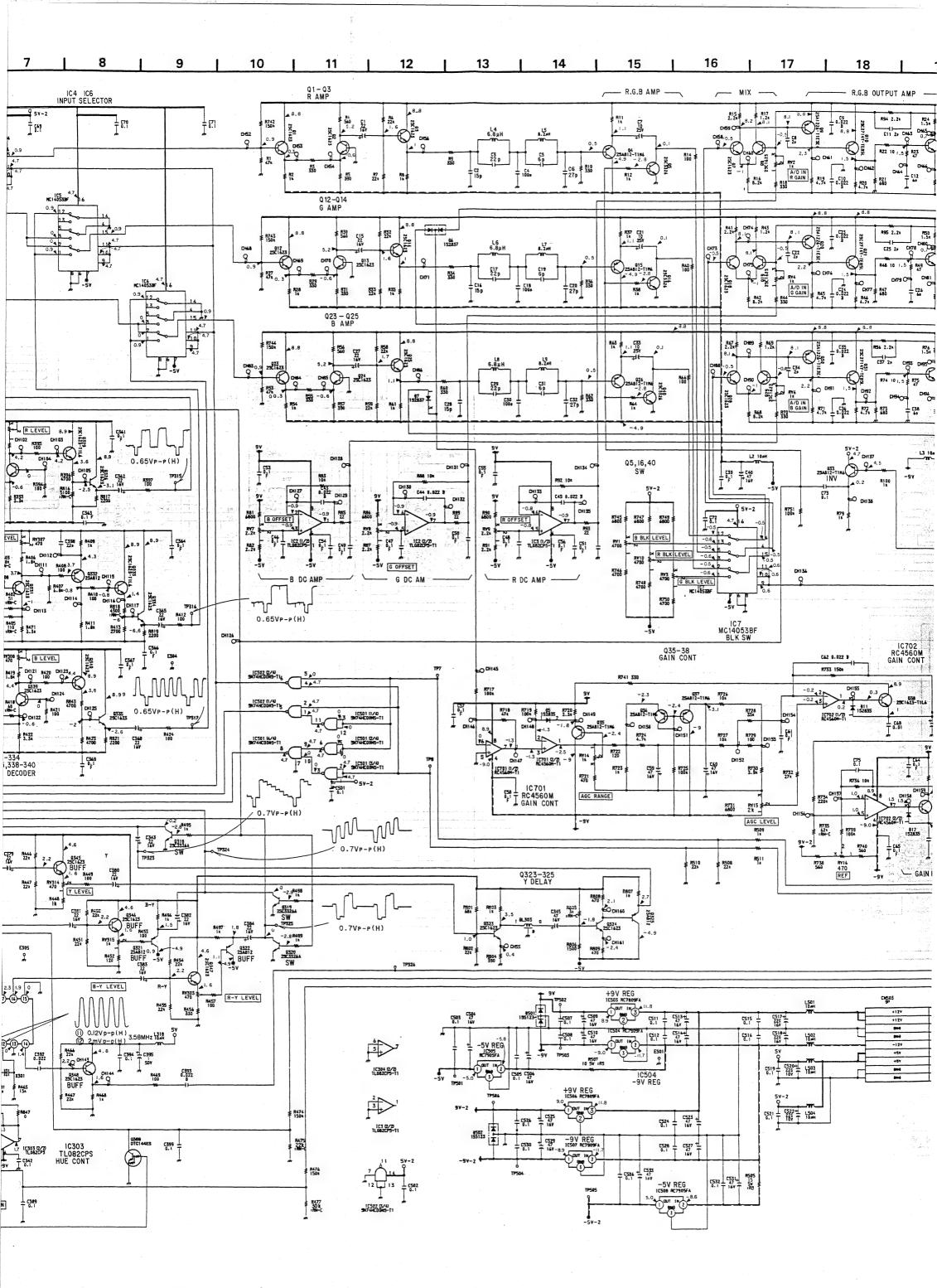


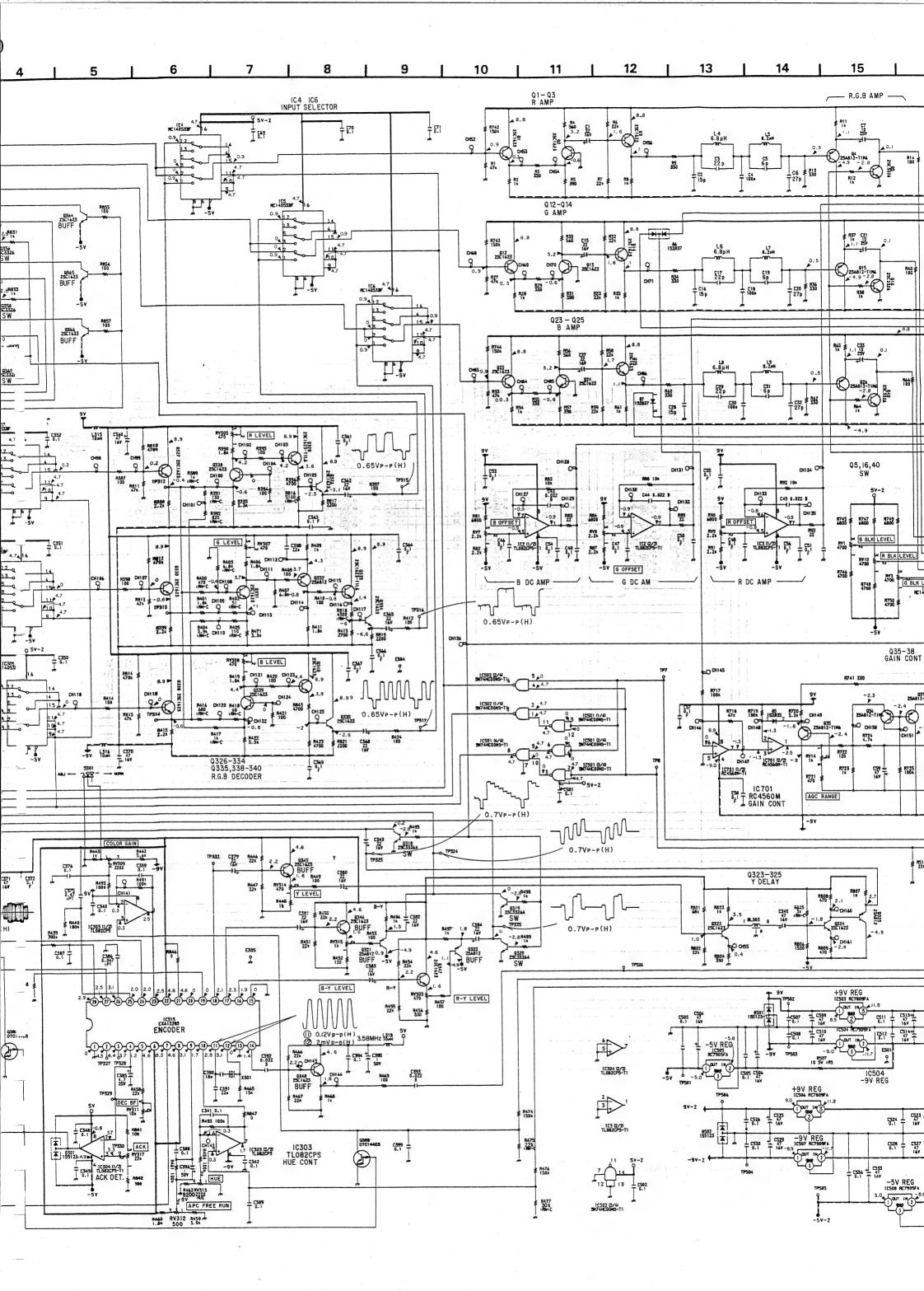
VA-26 -COMPONENT SIDE-1-641-461-11 UP-5200MD UP-5250MD

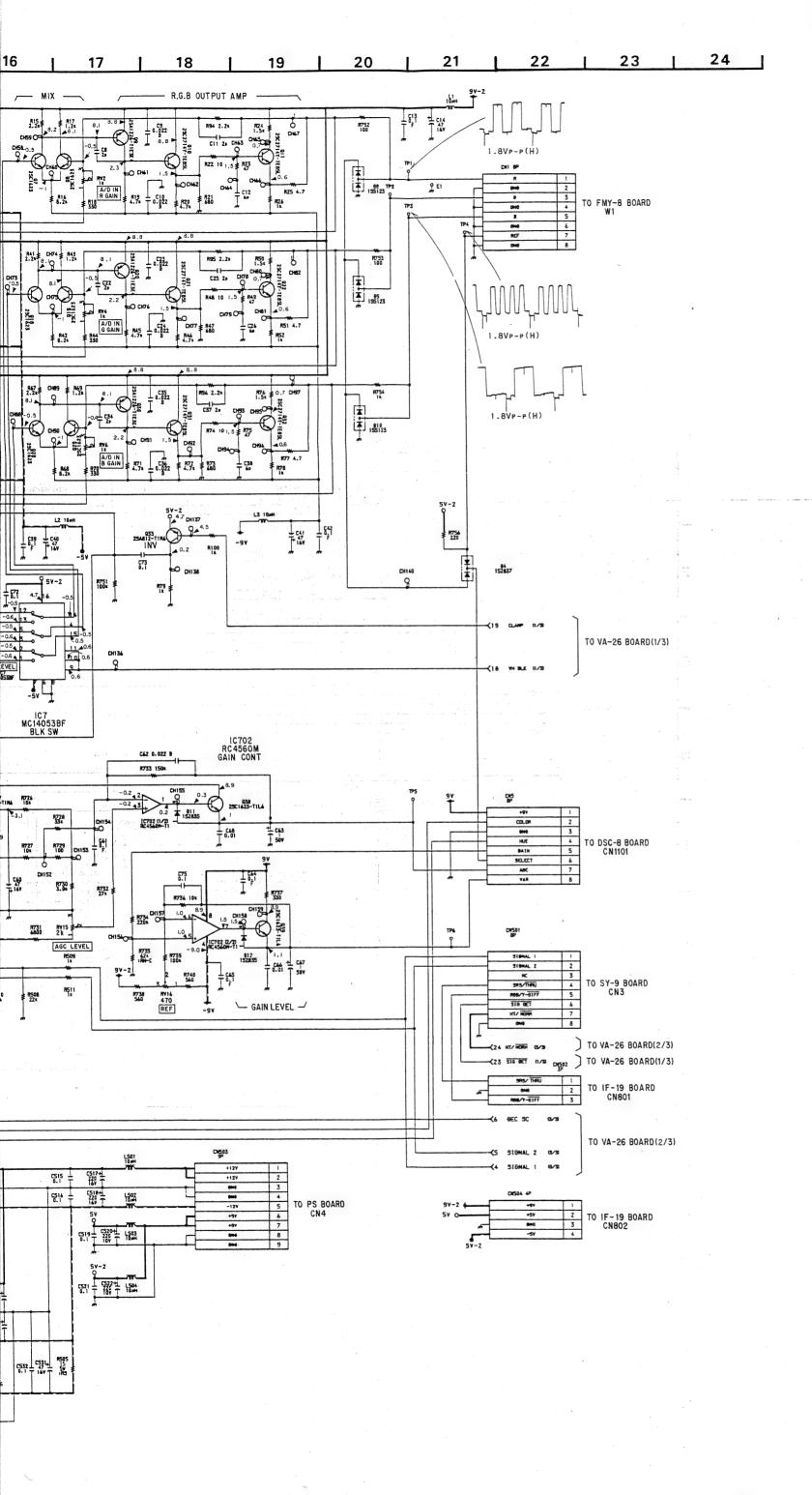
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Q1004	A-3	9	Q1038	B-6	รั	RV14	L-2	RV316			TP1	P-1	TP210	G-6	TP328	F-3	TP1016	B-7
Q1005	A-3	S	Q1039	A-7	Š	RV15	K-2	RV317			ГР2	N-1	TP211	F-6	TP329	E-3	TP1018	C-6
Q1006	A-3	Š	Q1039	B-6	5	RV16	M-2	RV318			ГР3	N-1	TP212	F-5	TP330	E-2	TP1019	D-5
Q1007	A-3	3	Q1041	B-7	Š	RV201	F-5	RV1001			TP4	M-1	TP302	H-4	TP331	D-2	TP1020	A-4
Q1008	A-3	c	Q1041	C-6	Š	RV203	E-6	RV1002			ГР5	K-1	TP303	L-5	TP601	C-3	TP1024	B-3
Q1009	A-3	c .	Q1042 Q1043	C-6	5	RV204	E-6	RV1003			TP6	M-1	TP312		TP1001		TP1026	
Q1010	D-2	3	Q1043 Q1044	D-2	5	RV302	J-6	RV1004			TP7	E-2	TP313		TP1002		TP1027	
Q1015	C-6	2	Q1044 Q1045	D-3	2	RV303	G-2	RV1005			TP8	D-2	TP314		TP1003		TP1028	
Q1015	B-7	2	Q1045	D-3	3	RV304	L-7	RV1006			TP101	F-7	TP315		TP1004			
Q1017	C-1	2	D\/1	M-4		RV305	J-2	RV1007			TP102		TP316		TP1005		X301	F-3
Q1018	C-2	2	RV1 RV2	N-2		RV307	J-2	RV1008			TP103		TP317		TP1006		X1001	C-4
Q1019	B-1	2	RV2	M-4		RV307	H-2	RV1009				N-6			TP1007		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•
Q1028	C-6	2		N-2		RV309	F-2	RV1010							TP1008			
Q1029	C-0 C-7	2	RV4	M-2		RV309	F-4	RV1011			TP204	E-5			TP1009			
Q1034	A-6	2	RV6			RV311	F-4	RV1012						G-1	TP1010			
Q1035	A-0 A-7	2	RV7	L-3 L-3		RV312	F-1	1141012	D-0		TP206				TP1011			
Q1036	A-7 B-6	2	RV8			RV313	G-2	S301	F-2		TP207		TP326		TP1012			
A 1030	D-0	5	RV9	M-3		KA214	G-2	3301	1-2	'	1 201	0-5		0.2		Ī.		
													VID	EO	VIDEO	ŗ		
								- 63 <i>—</i>					17	1 26	1/4 26			
								05 ==					I V	A-26	VA-26			

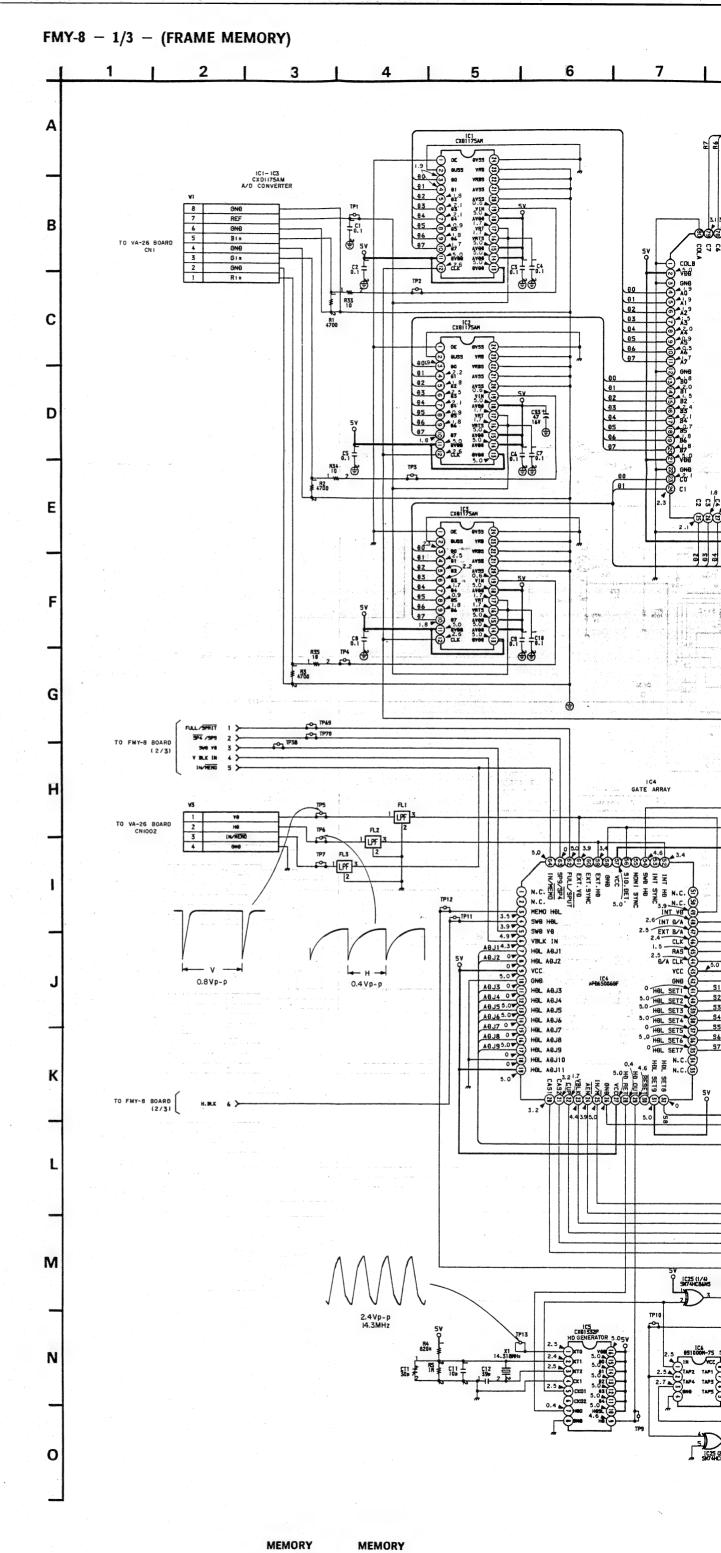
• Conductor side pattern

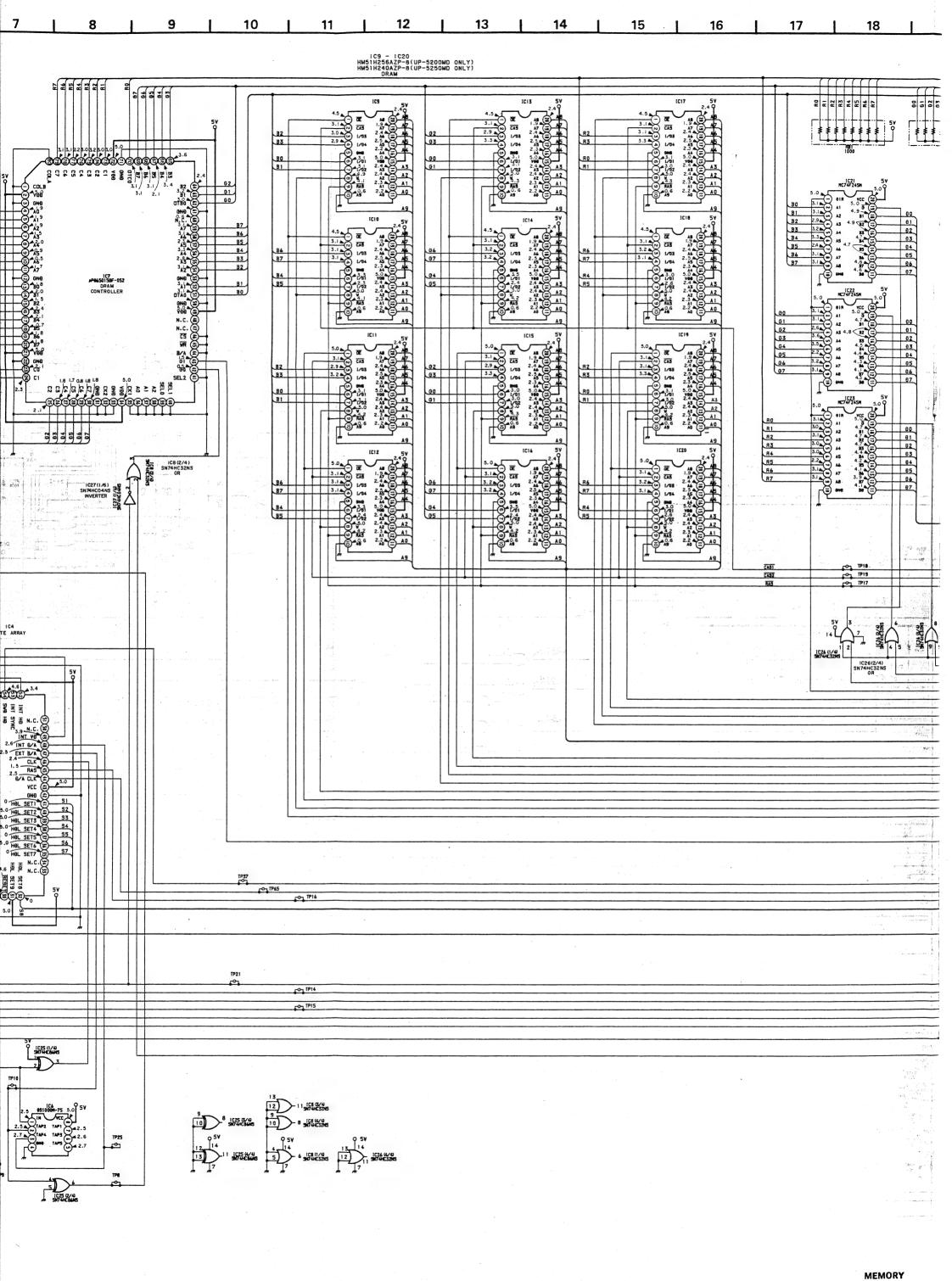
• : Component side pattern



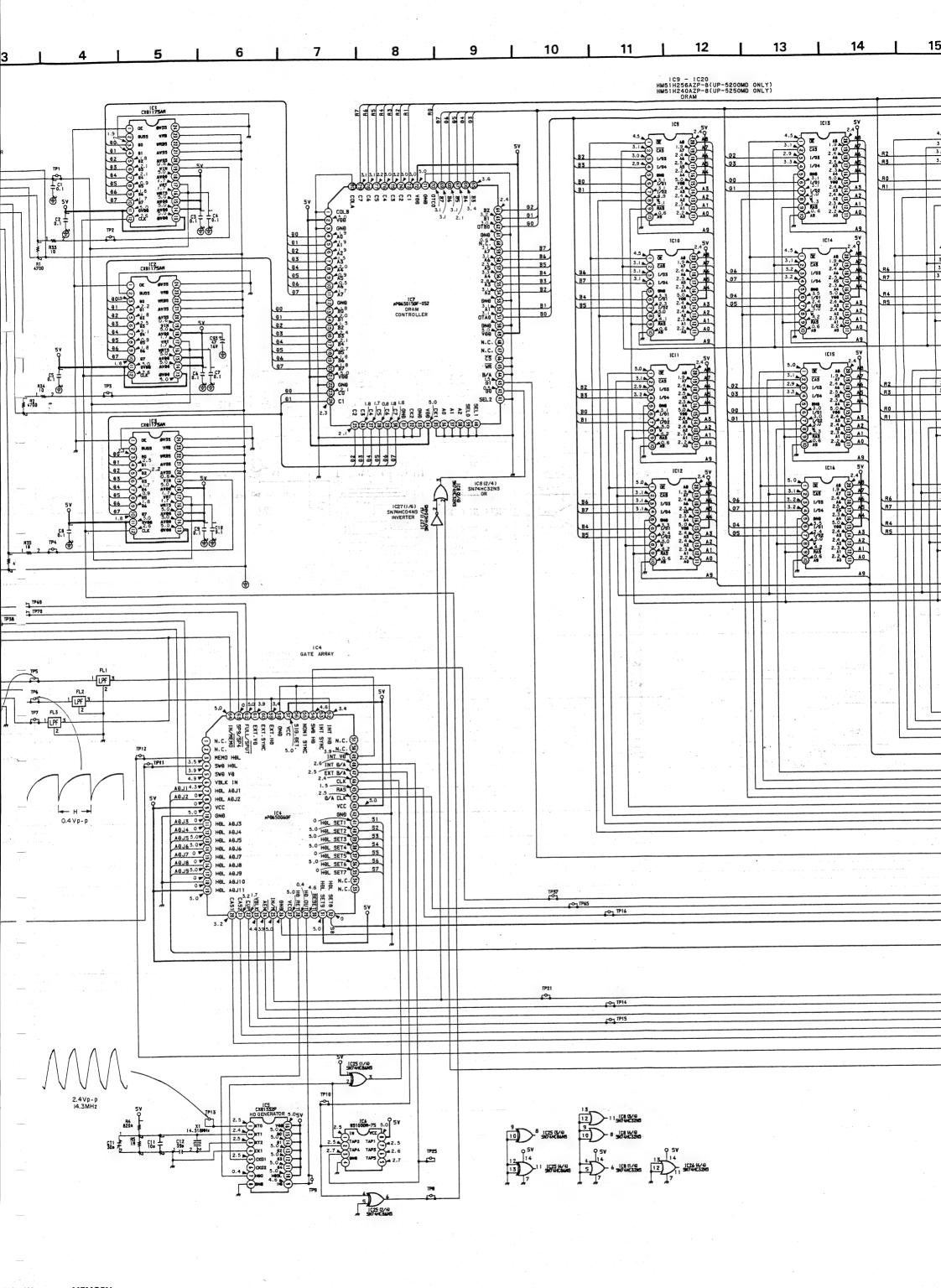








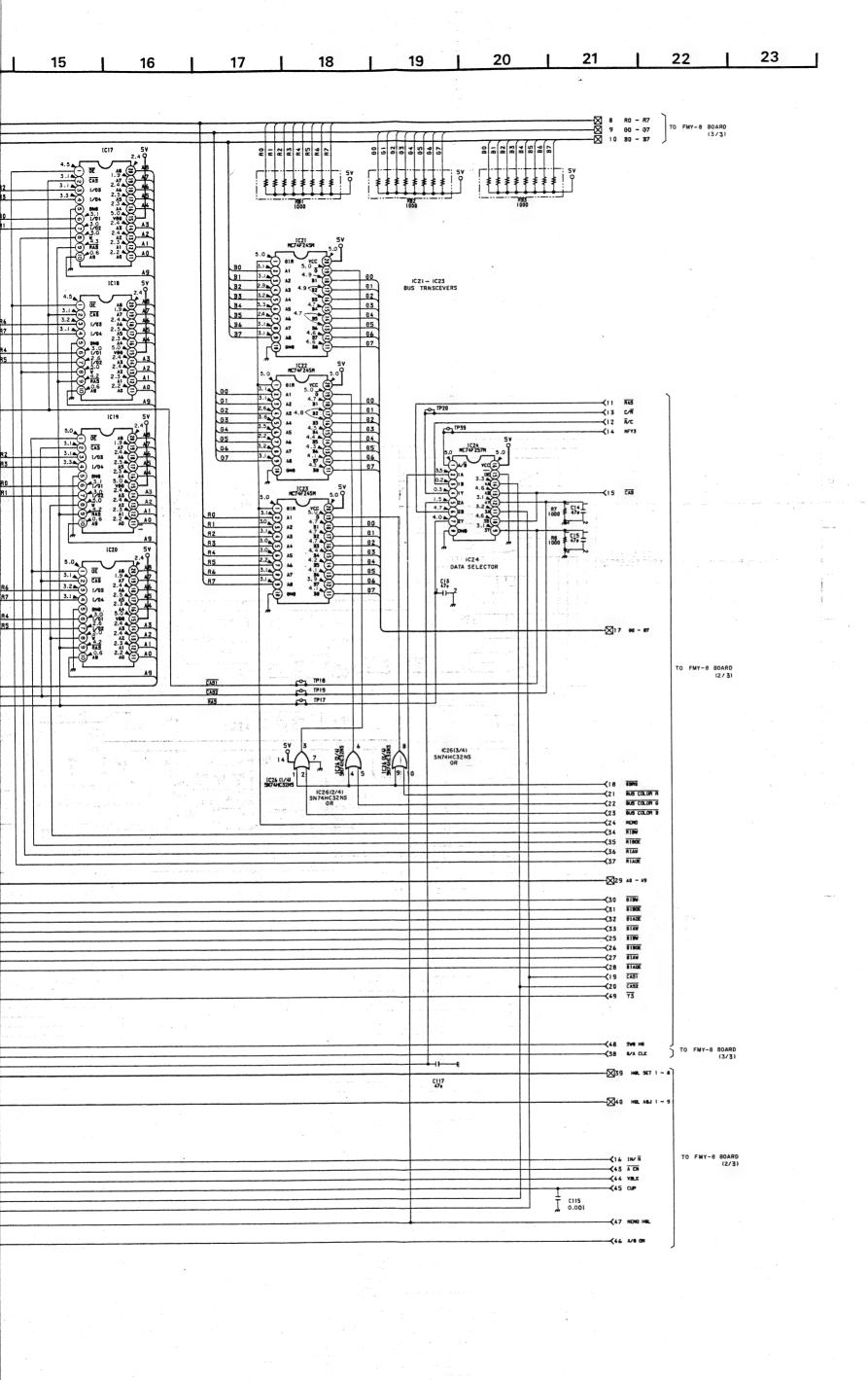
-71 -



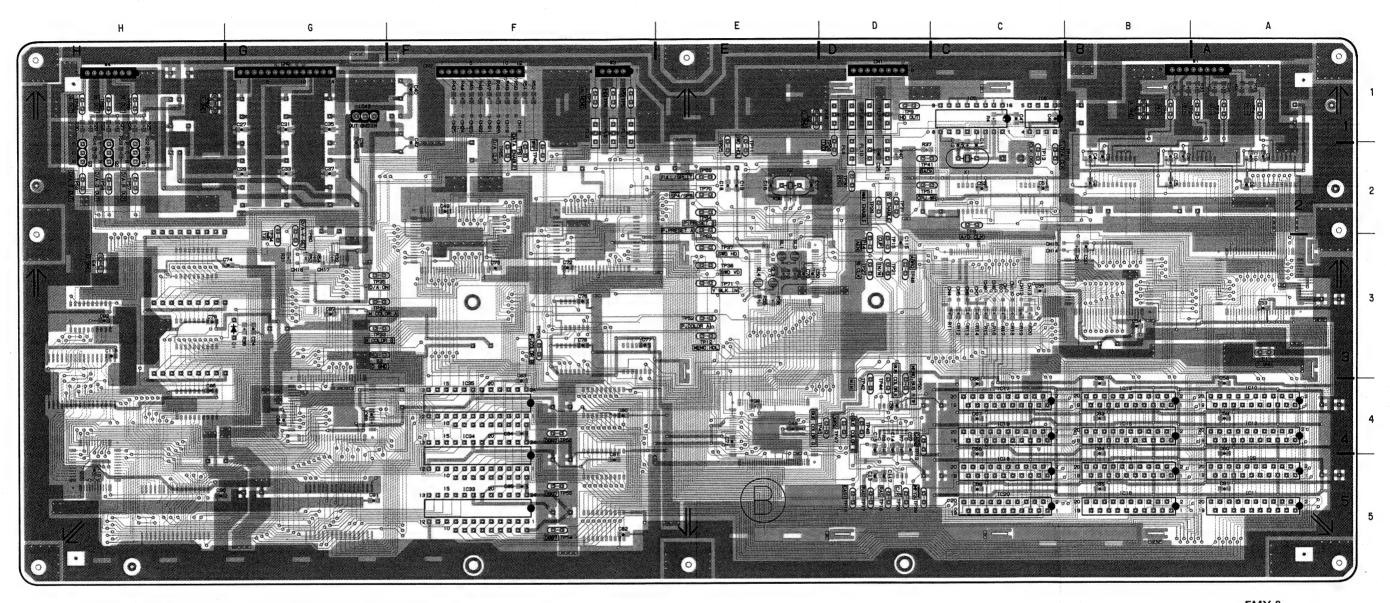
EM (Y MEMORY

— 70 —

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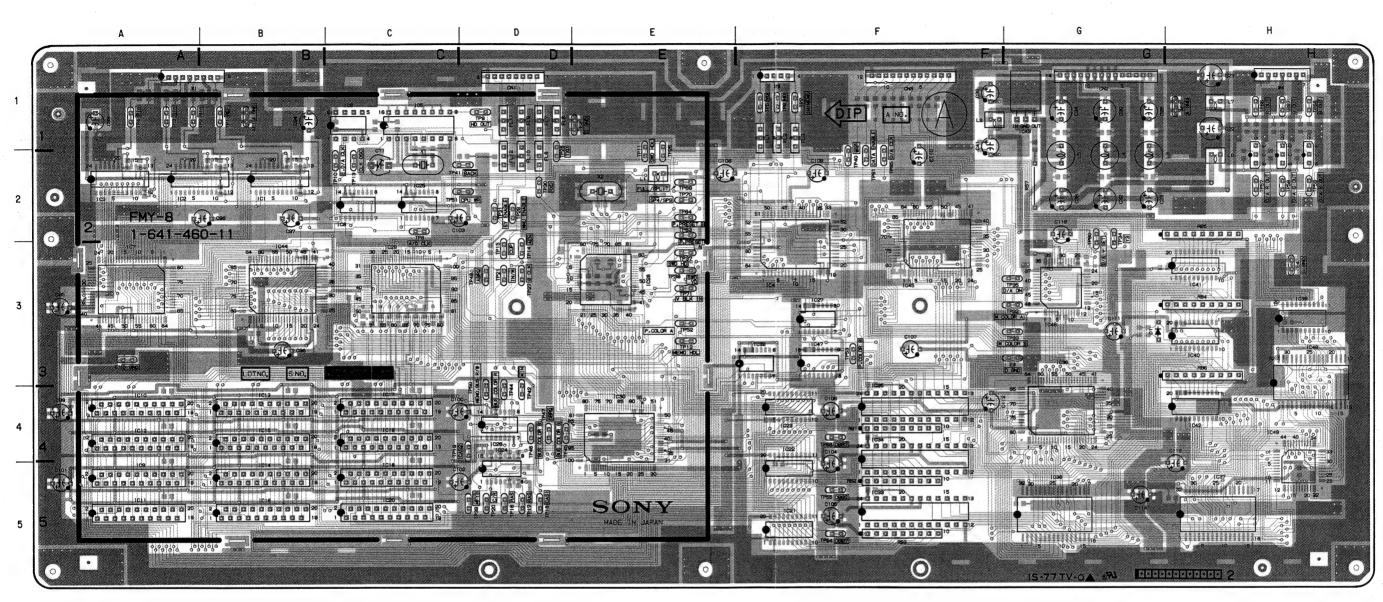


FMY-8 (FRAME MEMORY)



FMY-8 -SOLDERING SIDE-1-641-60-11 UP-5200MD UP-5250MD

FMY-8	Board														
CN1	D-1	IC8	C-2	IC39	H-3	L8	F-1	TP7	F-1	TP29	D-2	TP50	D-4	TP69	
CN2	G-1	IC21	F-5	IC40	H-3	Q1	H-2	TP8	C-2	TP30	D-2	TP51	C-2	TP70	E-2
CN3	F-1	IC22	F-4	IC41	H-3	Q2	H-2	TP9	D-1	TP31	D-2	TP52	E-3	TP71	E-3
C		IC23	F-4	IC42	H-4	Q3	H-2	TP1		TP32	G-3	TP53	F-3		
CT1	C-2	IC24	D-4	IC43	G-1	4.		TP1		TP33	G-3	TP54	F-5	W1	A-1
CII	C-2	IC25	C-2	IC44	B-3	RB1	F-4	TP1		TP34	Ğ-1	TP55	F-5	W3	F-1
E1	A-3	IC26	D-4	IC45	F-3	RB2	F-5	TP1		TP35	G-3	TP56	F-4	W4	H-1
E2	E-1	IC27	F-3	IC46	G-3	RB3	F-5	TP1		TP37	E-3	TP57	H-2	•••	
		IC28	E-3	IC40	F-3	RB4	H-3	TP1		TP38	E-3	TP58	H-2	X1	C-2
E3	G-3				H-3		H-2			TP39	D-5	TP59	H-2	X2	E-2
E4	H-3	IC29	C-3	IC48		RB5		TP1					G-1	72	L-2
101	D 0	IC30	E-4	IC49	H-4	RB6	H-3	TP1		TP40	F-2	TP60			
IC1	B-2	IC32	F-3					TP1		TP41	C-2	TP61	F-2		
IC2	A-2	IC33	F-5	L1	E-2	TP1	B-1	TP1		TP42	D-4	TP63	E-2		
IC3	A-2	IC34	F-4	L3	G-2	TP2	B-1	TP2		TP44	D-4	TP64	E-2		
IC4	F-3	IC35	F-4	L4	G-2	TP3	A-1	TP2		TP45	D-4	TP65	F-2		
IC5	C-1	IC36	G-3	L5	G-5	TP4	A-1	TP2	5 D-3	TP46	D-4	TP66	H-1		
IC6	C-1	IC37	H-5	L6	H-2	TP5	F-1	TP2	7 D-3	TP47	D-4	TP67	H-1		
IC7	A-3	IC38	G-5	L7	H-1	TP6	F-1	TP2	B D-2	TP48	D-3	TP68	H-1		

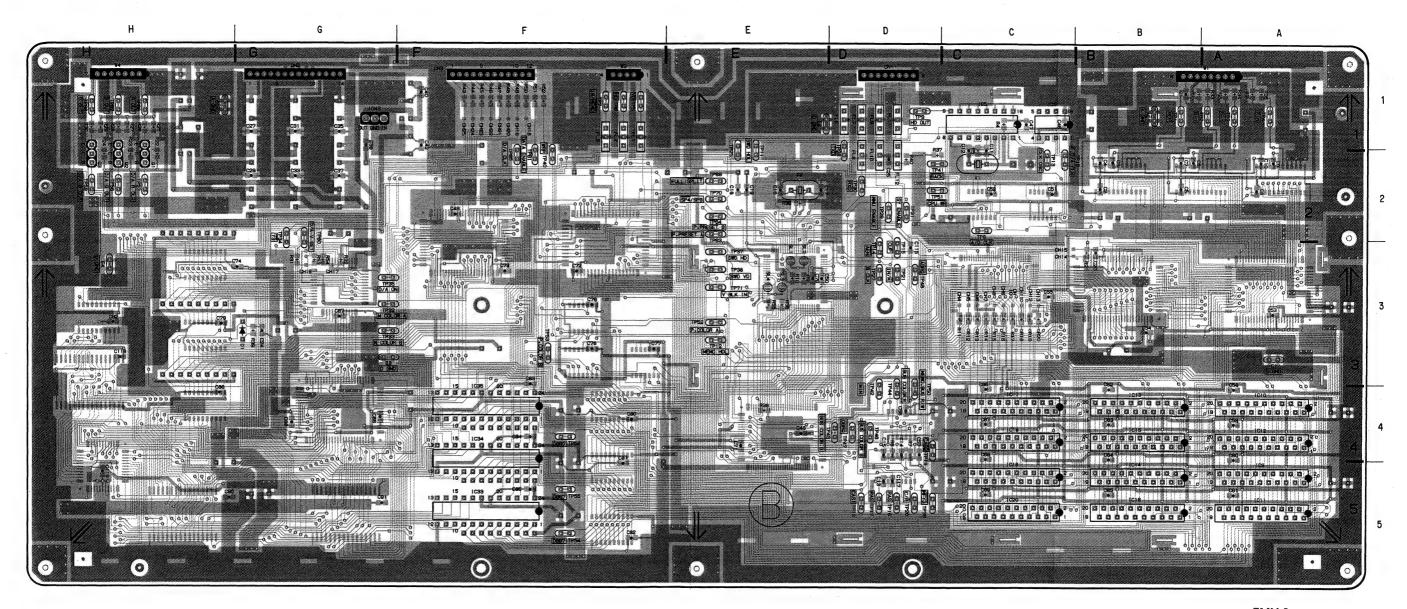


FMY-8 -COMPONENT SIDE-1-641-460-11 UP-5200MD

- Conductor side pattern
- Component side pattern

UP-5200MD/5250MD

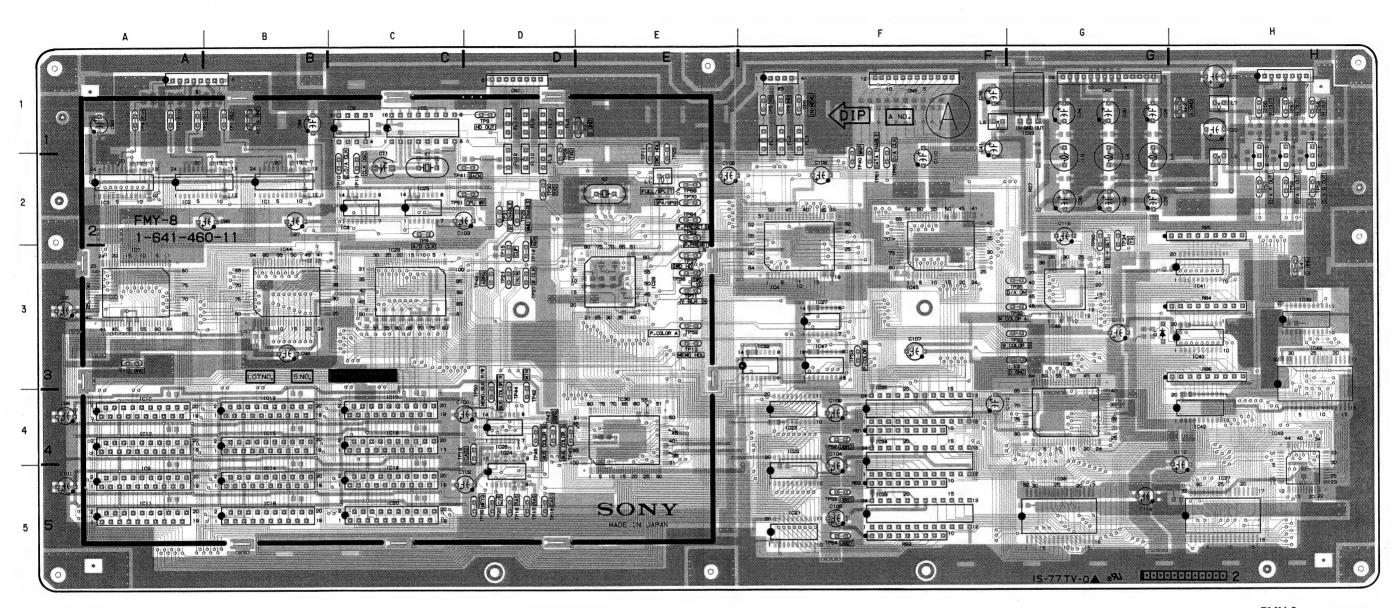
FMY-8 (FRAME MEMORY)



FMY-8 -SOLDERING SIDE-1-641-460-11 UP-5200MD UP-5250MD

FMY-8	Board														
CN1	D-1	IC8	C-2	IC39	H-3	L8	F-1	TP7	F-1	TP29	D-2	TP50	D-4	TP69	E-2
CN2	G-1	IC21	F-5	IC40	H-3	Q1	H-2	TP8	C-2	TP30	D-2	TP51	C-2	TP70	E-2
CN3	F-1	IC22	F-4	IC41	H-3	Q2	H-2	TP9	D-1	TP31	D-2	TP52	E-3	TP71	E-3
	• -	IC23	F-4	IC42	H-4	Q3	H-2	TP10	C-2	TP32	G-3	TP53	F-3		
CT1	C-2	IC24	D-4	IC43	G-1	•		TP11	E-2	TP33	G-3	TP54	F-5	W1	A-1
	-	IC25	C-2	IC44	B-3	RB1	F-4	TP12	E-3	TP34	G-1	TP55	F-5	W3	F-1
E1	A-3	IC26	D-4	IC45	F-3	RB2	F-5	TP13	C-2	TP35	G-3	TP56	F-4	W4	H-1
E2	E-1	IC27	F-3	IC46	G-3	RB3	F-5	TP14	D-3	TP37	E-3	TP57	H-2	•••	
E3	G-3	IC28	E-3	IC47	F-3	RB4	H-3	TP15	D-3	TP38	E-3	TP58	H-2	X1	C-2
E4	H-3	IC29	C-3	IC48	H-3	RB5	H-2	TP16	D-5	TP39	D-5	TP59	H-2	X2	E-2
LT	11-3	iC30	E-4	IC49	H-4	RB6	H-3	TP17	D-5	TP40	F-2	TP60	G-1	//2	L-2
IC1	B-2	IC32	F-3	1015		1100	11-5	TP18	D-5	TP41	C-2	TP61	F-2		
IC2	A-2	IC33	F-5	L1	E-2	TP1	B-1	TP19	C-4	TP42	D-4	TP63	E-2		
IC3	A-2 A-2	IC34	F-4	L3	G-2	TP2	B-1	TP20	D-5	TP44	D-4	TP64	E-2		
		IC34	F-4	L4	G-2	TP3	A-1	TP21	D-3 D-3	TP45	D-4 D-4	TP65	F-2		
IC4	F-3	IC35	G-3	L5	G-2 G-5	TP4	A-1 A-1	TP25	D-3 D-3	TP46	D-4 D-4	TP66	H-1		
IC5	C-1			L6	H-2							TP67	H-1		
IC6	C-1	IC37	H-5			TP5	F-1	TP27	D-3	TP47	D-4				
IC7	A-3	IC38	G-5	L7	H-1	TP6	F-1	TP28	D-2	TP48	D-3	TP68	H-1		

MEMORY MEMORY
FMY-8 FMY-8



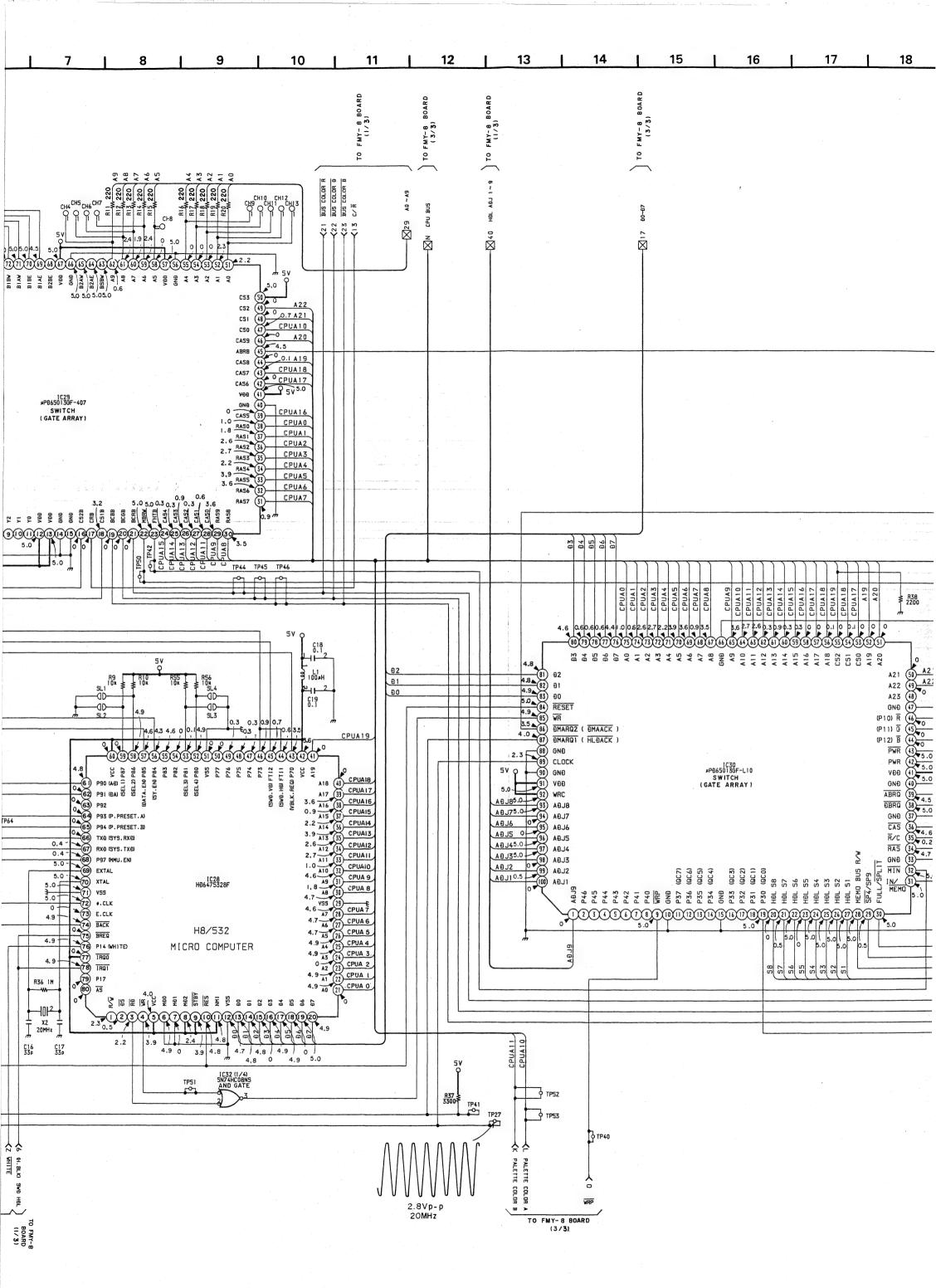
FMY-8 -COMPONENT SIDE-1-641-460-11 UP-5200MD UP-5250MD

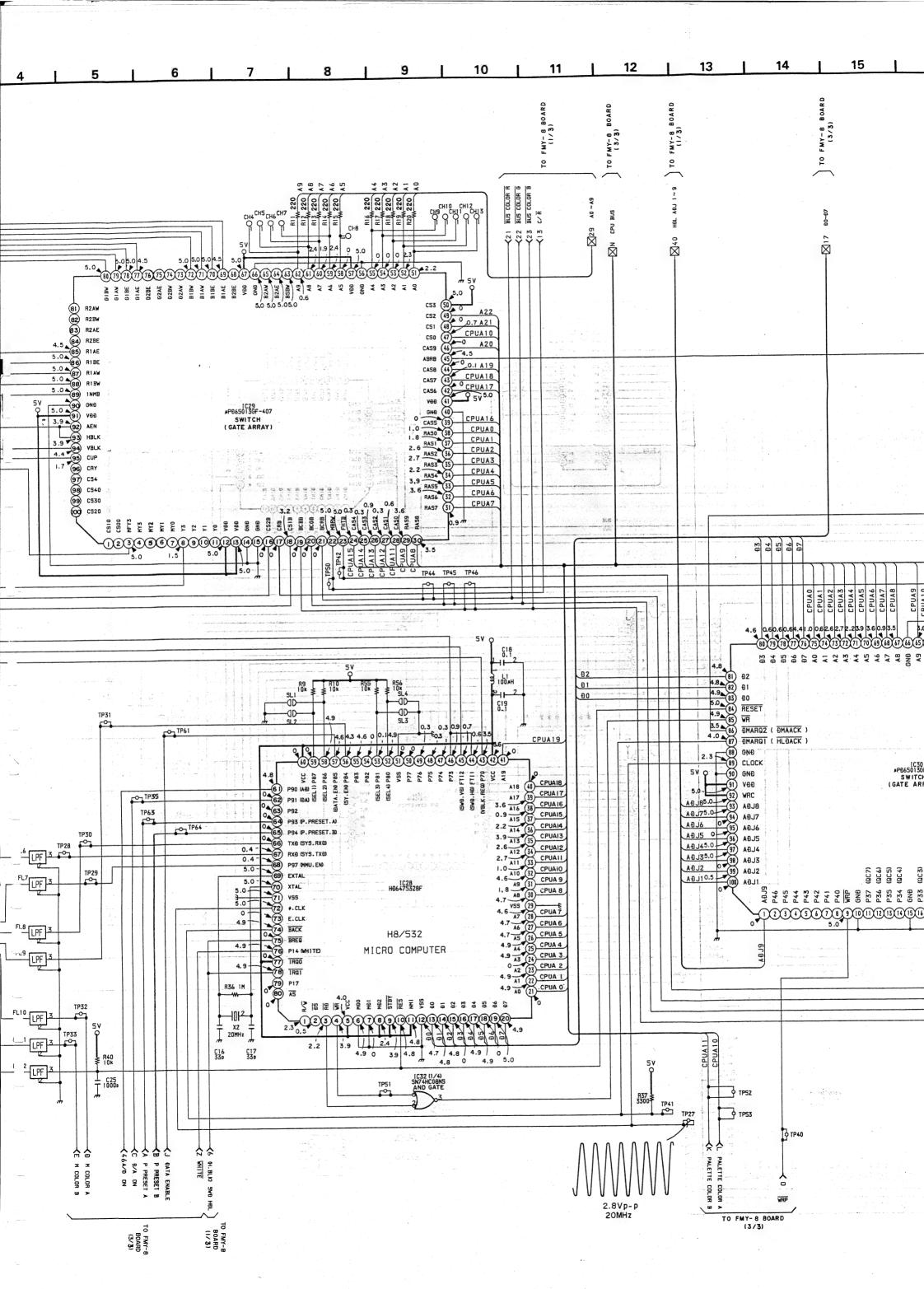
• Conductor side pattern

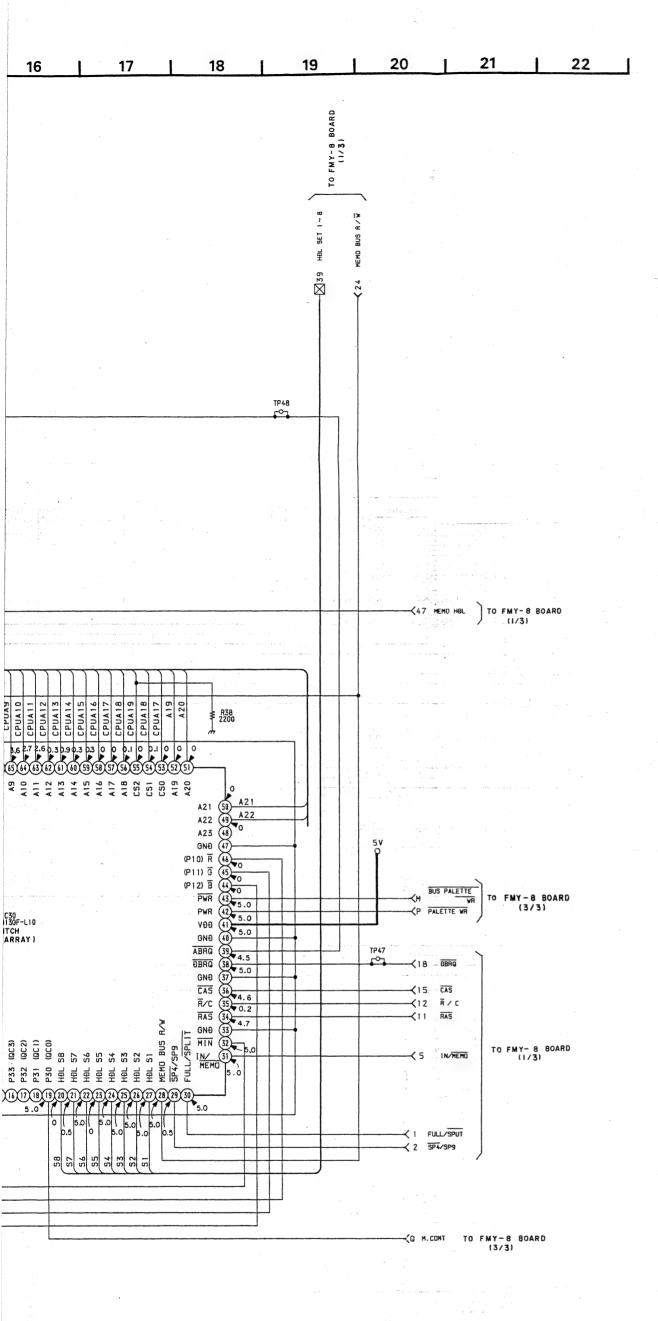
• : Component side pattern

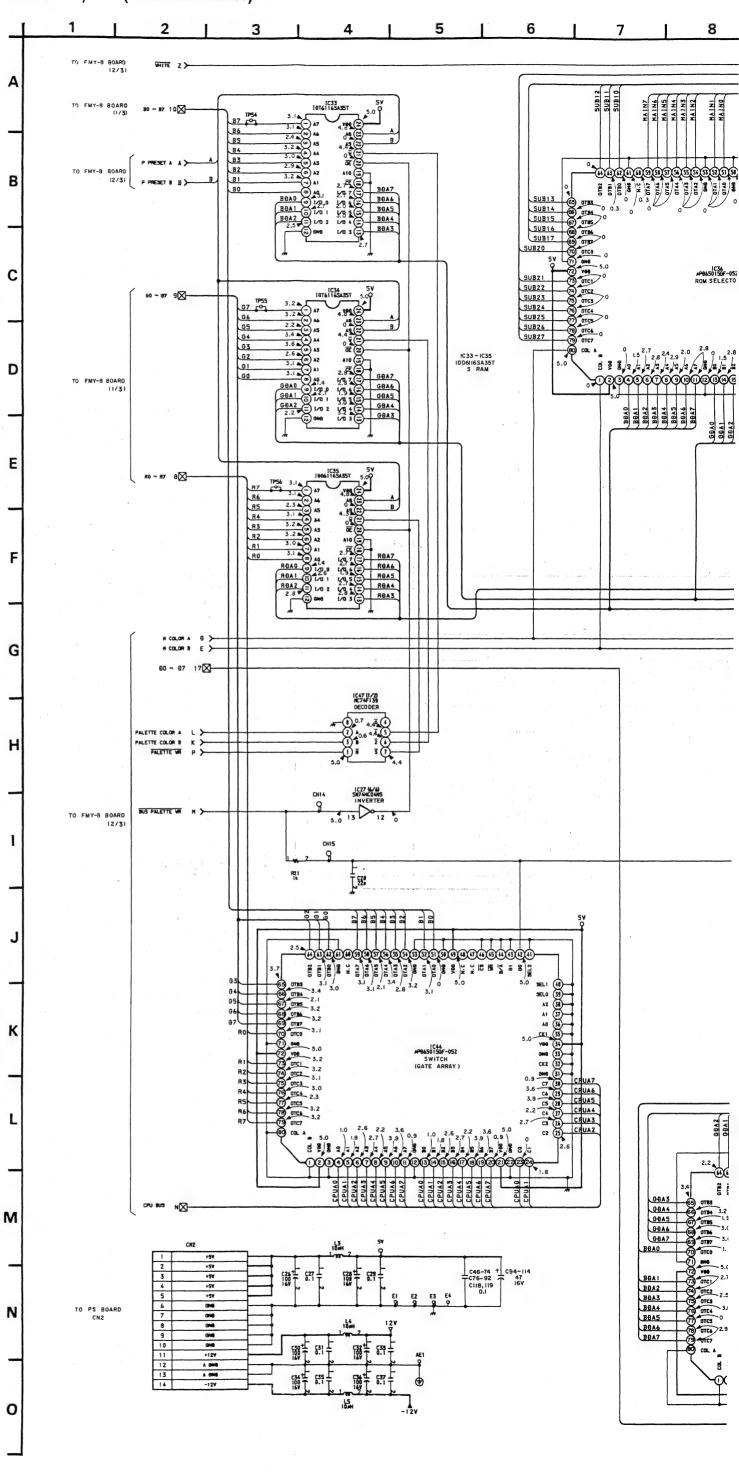
MEMORY **MEMORY** FMY-8 FMY-8

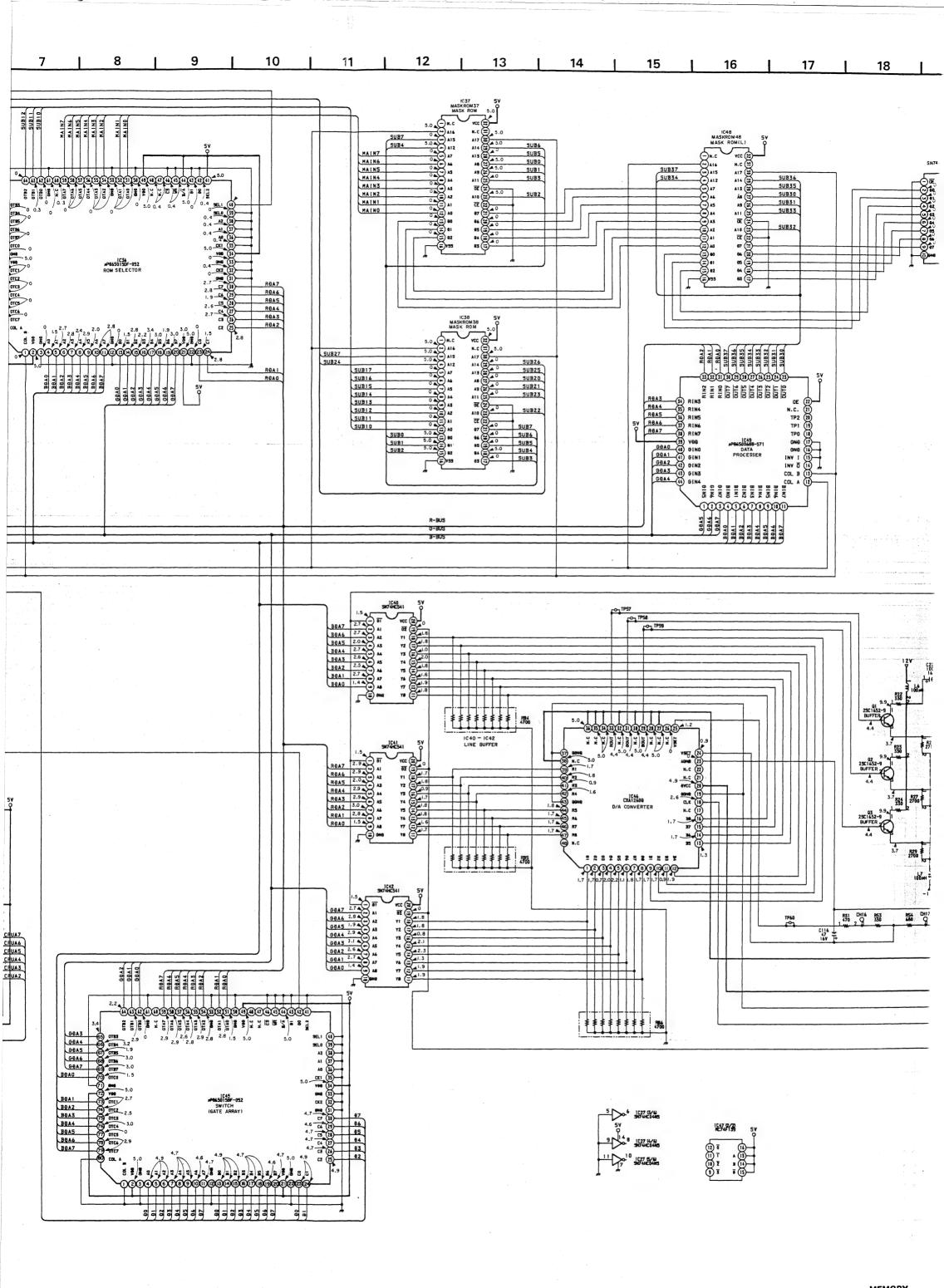
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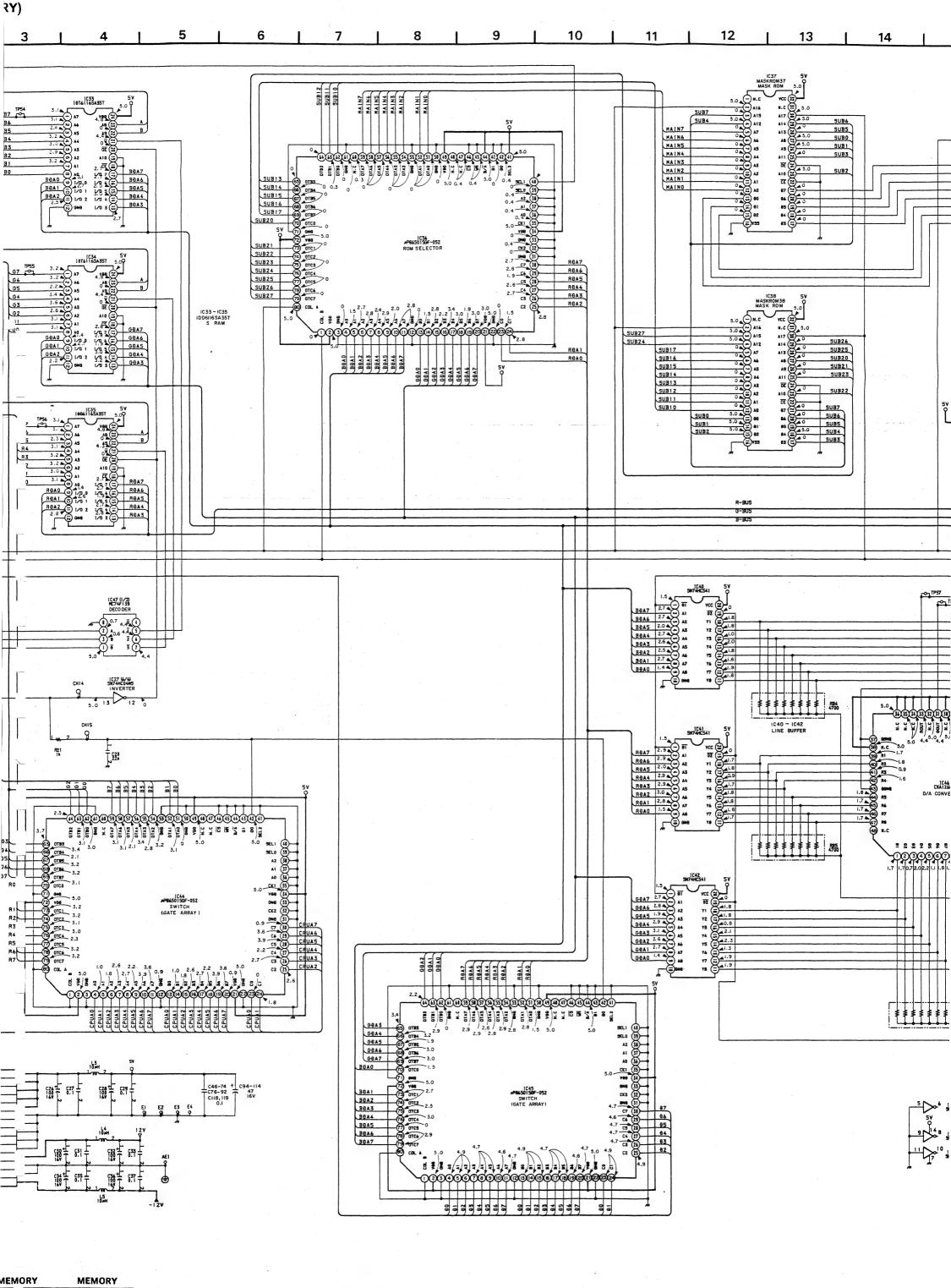




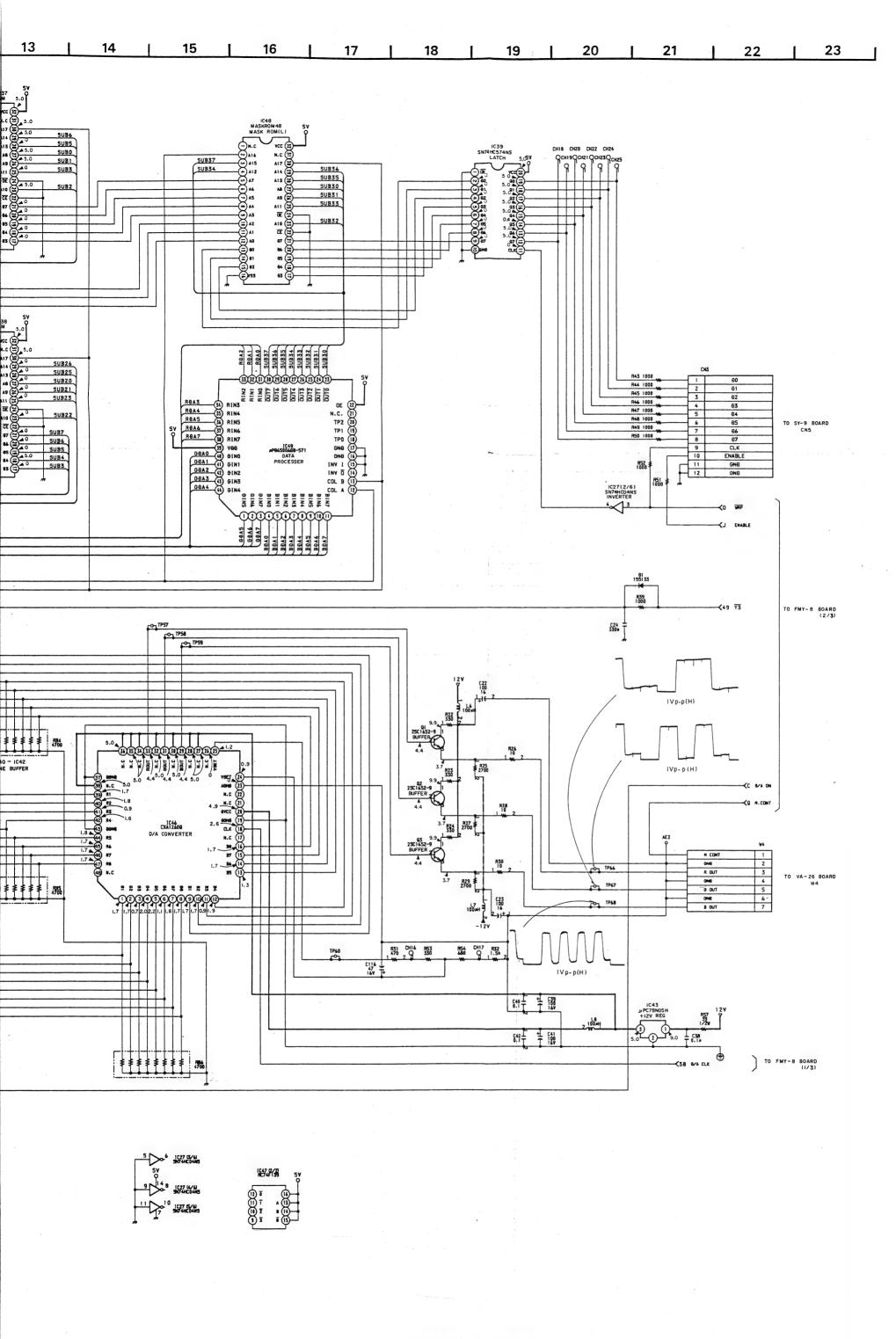




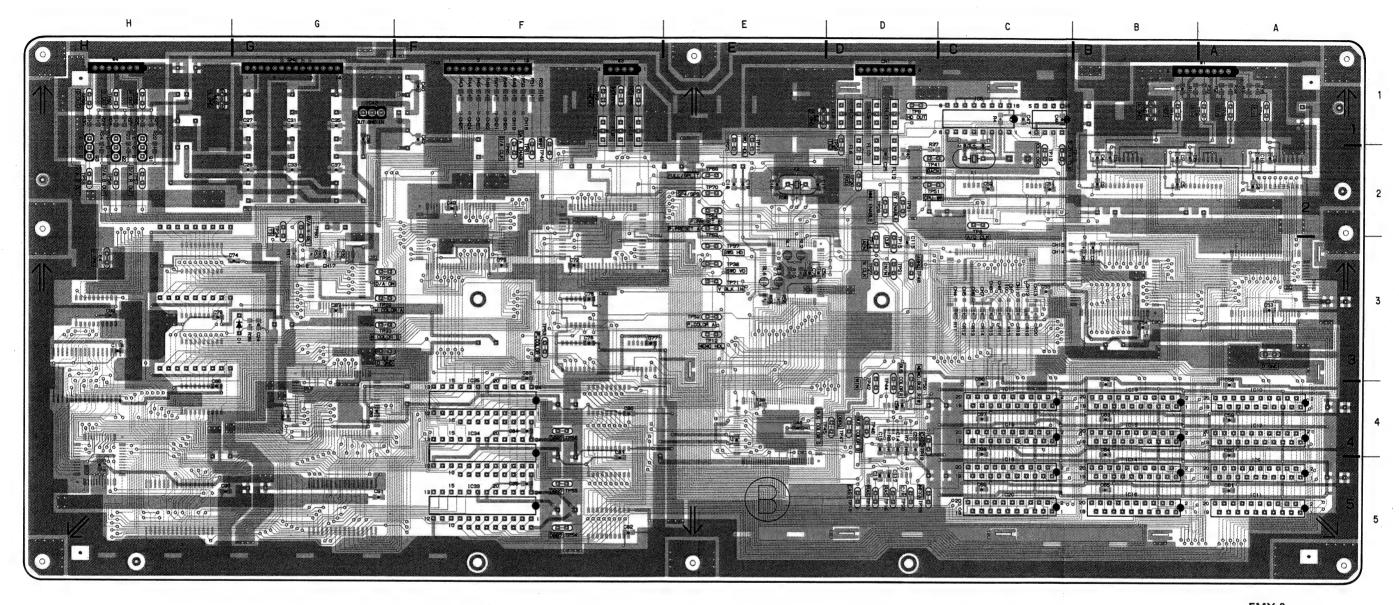




FN Y-8 FMY-8

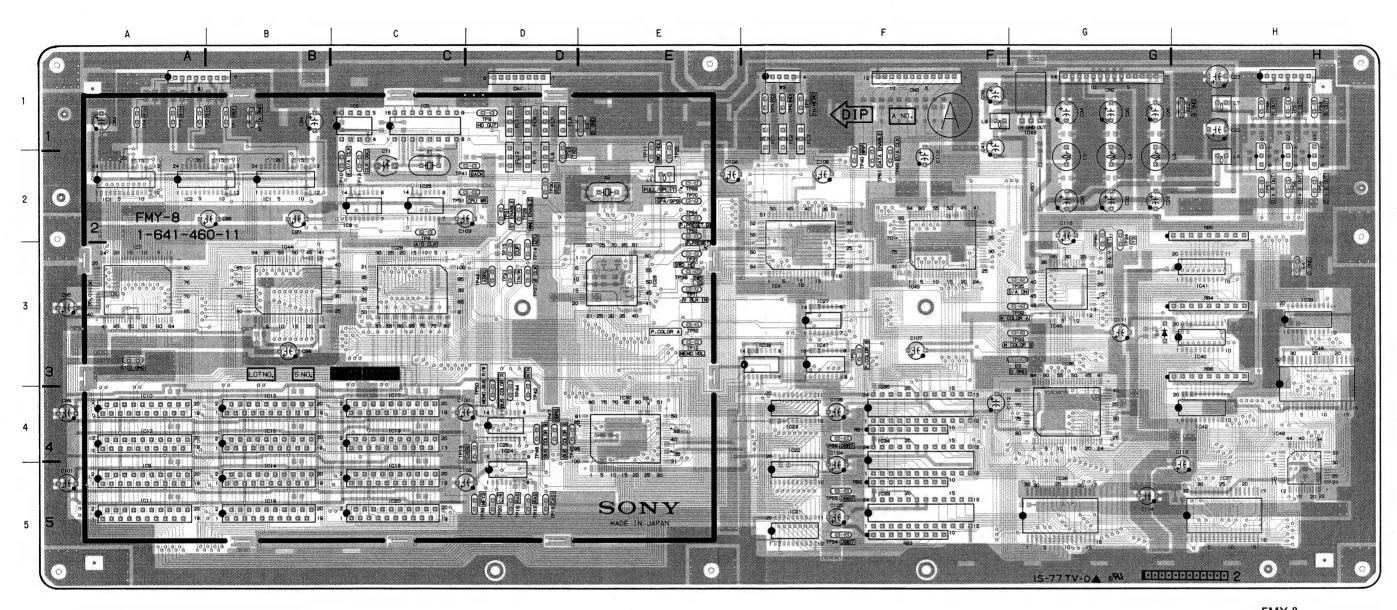


FMY-8 (FRAME MEMORY)



FMY-8 -SOLDERING SIDE-1-641-460-11 UP-5200MD UP-5250MD

FMY-8	Board														
CN1	D-1	IC8	C-2	IC39	H-3	L8	F-1	TP7	F-1	TP29	D-2	TP50	D-4	TP69	E-2
CN2	G-1	IC21	F-5	IC40	H-3	Q1	H-2	TP8	C-2	TP30	D-2	TP51	C-2	TP70	E-2
CN3	F-1	IC22	F-4	IC41	H-3	Q2	H-2	TP9	D-1	TP31	D-2	TP52	E-3	TP71	E-3
	-	IC23	F-4	IC42	H-4	Q3	H-2	TP10	C-2	TP32	G-3	TP53	F-3		
CT1	C-2	IC24	D-4	IC43	G-1	-		TP11	E-2	TP33	G-3	TP54	F-5	W1	A-1
		IC25	C-2	IC44	B-3	RB1	F-4	TP12	E-3	TP34	G-1	TP55	F-5	W3	F-1
E1	A-3	IC26	D-4	IC45	F-3	RB2	F-5	TP13	C-2	TP35	G-3	TP56	F-4	W4	H-1
E2	E-1	IC27	F-3	IC46	G-3	RB3	F-5	TP14	D-3	TP37	E-3	TP57	H-2		
E3	G-3	IC28	E-3	IC47	F-3	RB4	H-3	TP15	D-3	TP38	E-3	TP58	H-2	X1	C-2
Ē4	H-3	IC29	C-3	IC48	H-3	RB5	H-2	TP16	D-5	TP39	D-5	TP59	H-2	X2	E-2
		IC30	E-4	IC49	H-4	RB6	H-3	TP17	D-5	TP40	F-2	TP60	G-1	712	
IC1	B-2	IC32	F-3					TP18	D-5	TP41	C-2	TP61	F-2		
IC2	A-2	IC33	F-5	L1	E-2	TP1	B-1	TP19	C-4	TP42	D-4	TP63	E-2		
IC3	A-2	IC34	F-4	L3	G-2	TP2	B-1	TP20	D-5	TP44	D-4	TP64	E-2		
IC4	F-3	IC35	F-4	L4	G-2	TP3	A-1	TP21	D-3	TP45	D-4	TP65	F-2		
iC5	C-1	IC36	G-3	L5	G-5	TP4	A-1	TP25	D-3	TP46	D-4	TP66	H-1		
IC6	Č-1	IC37	H-5	L6	H-2	TP5	F-1	TP27	D-3	TP47	D-4	TP67	H-1		
IC7	Ã-3	IC38	G-5	L7	H-1	TP6	F-1	TP28	D-2	TP48	D-3	TP68	H-1		

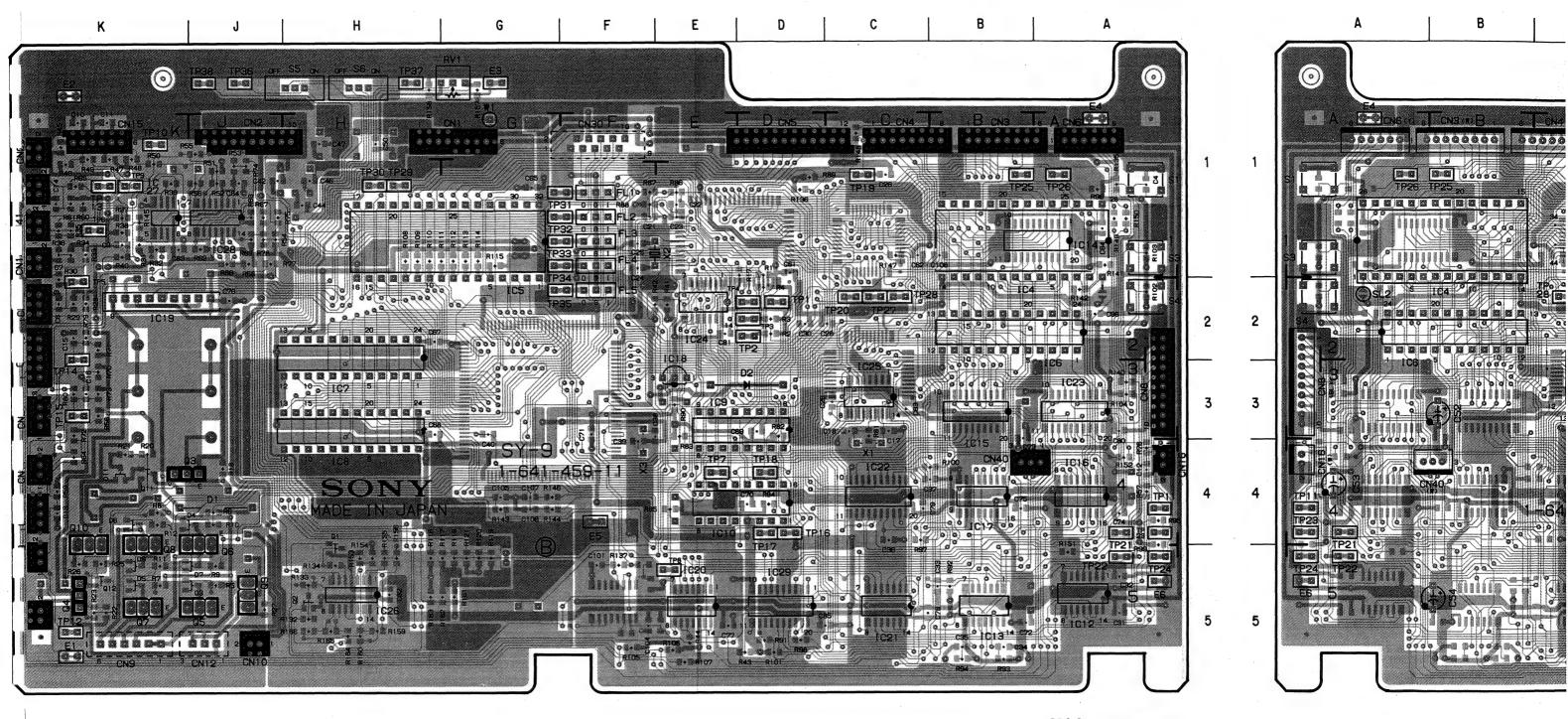


FMY-8 - COMPONENT SIDE 1-641-460-11 UP-5200MD UP-5250MD

• Conductor side pattern

Component side pattern

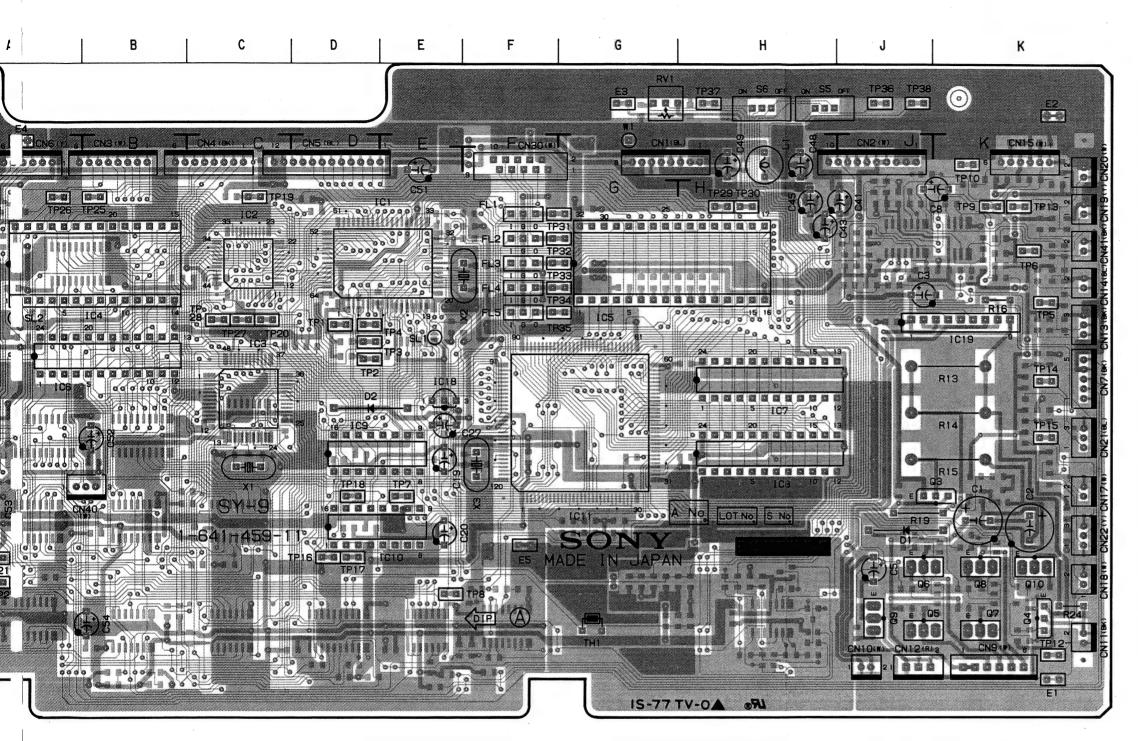
['Y-9 (SERVO/SYSTEM CONTROL)



SY-9 -SOLDERING SIDE-1-641-459-11 UP-5200MD UP-5250MD

SERVO/SYSTEM SERVO/SYSTEM SY-9 SY-9

— 94 —



SY-9 —COMPONENT SIDE— 1-641-459-11 UP-5200MD UP-5250MD

: Component side pattern

Conductor side pattern

CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN9
CN10
CN11
CN12
CN13
CN14
CN15
CN16
CN17
CN18
CN16
CN17
CN18
CN10
CN20
CN20
CN20
CN20
CN20
CN40
CN40 G-1 J-1 B-1 IC20 IC21 IC22 IC23 IC24 IC25 IC26 IC27 IC28 IC29 E-5 C-4 A-3 E-2 C-3 H-5 K-1 J-1 D-5 C-1 D-1 A-1 K-2 A-5 J-5 K-5 J-5 K-1 K-1 K-1 K-1 K-1 K-1 K-1 L1 H-1 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 H-4 H-5 K-5 J-5 K-5 J-5 K-5 K-5 K-5 D1 D2 D3 D4 D5 D6 D7 D9 D11 RV1 G-1 J-4 D-3 K-5 K-4 K-5 K-4 K-5 K-5 S1 S3 S4 S5 S6 A-1 A-1 A-2 H-1 H-1 TH1 G-5 E1 E2 E3 E4 E5 E6 K-5 K-1 G-1 A-1 F-4 A-5 TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 D-2 D-2 D-2 D-2 K-2 K-1 F-4 E-5 FL1 FL2 FL3 FL4 FL5 F-1 F-1 F-1 F-1 F-2 TP9
TP10
TP11
TP12
TP13
TP14
TP15
TP16
TP17
TP18
TP19
TP20
TP21
TP22
TP23
TP24
TP25
TP26
TP27
TP28
TP29 K-1 K-1 A-4 K-5 K-1 K-2 K-3 D-4 D-4 C-1 C-1 A-4 A-5 A-4 A-5 B-1 IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC10 IC11 IC12 IC13 IC14 IC15 IC16 IC17 E-1 C-3 B-1 B-2 H-3 D-3 E-4 G-3 A-5 B-3 A-4 B-3 K-2 A-1 C-1 C-1 H-1 H-1 G-1 TP30 TP31

SY-9

Board

TP32 TP33 TP34 TP35 TP36 TP37 TP38

W1

X1 X2 X3

G-1 G-1 G-2 J-1 H-1 J-1

G-1

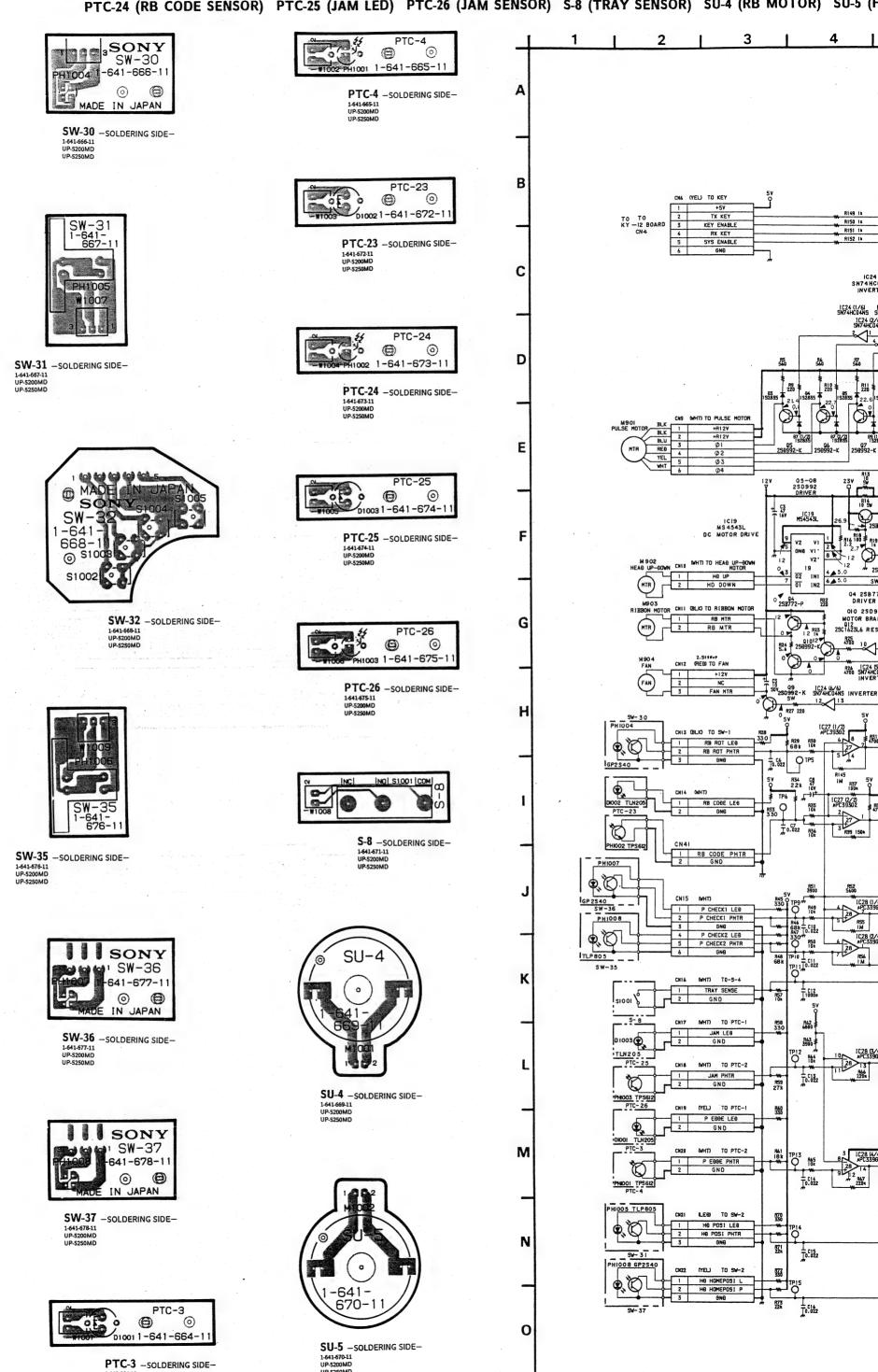
C-4 F-1 F-4

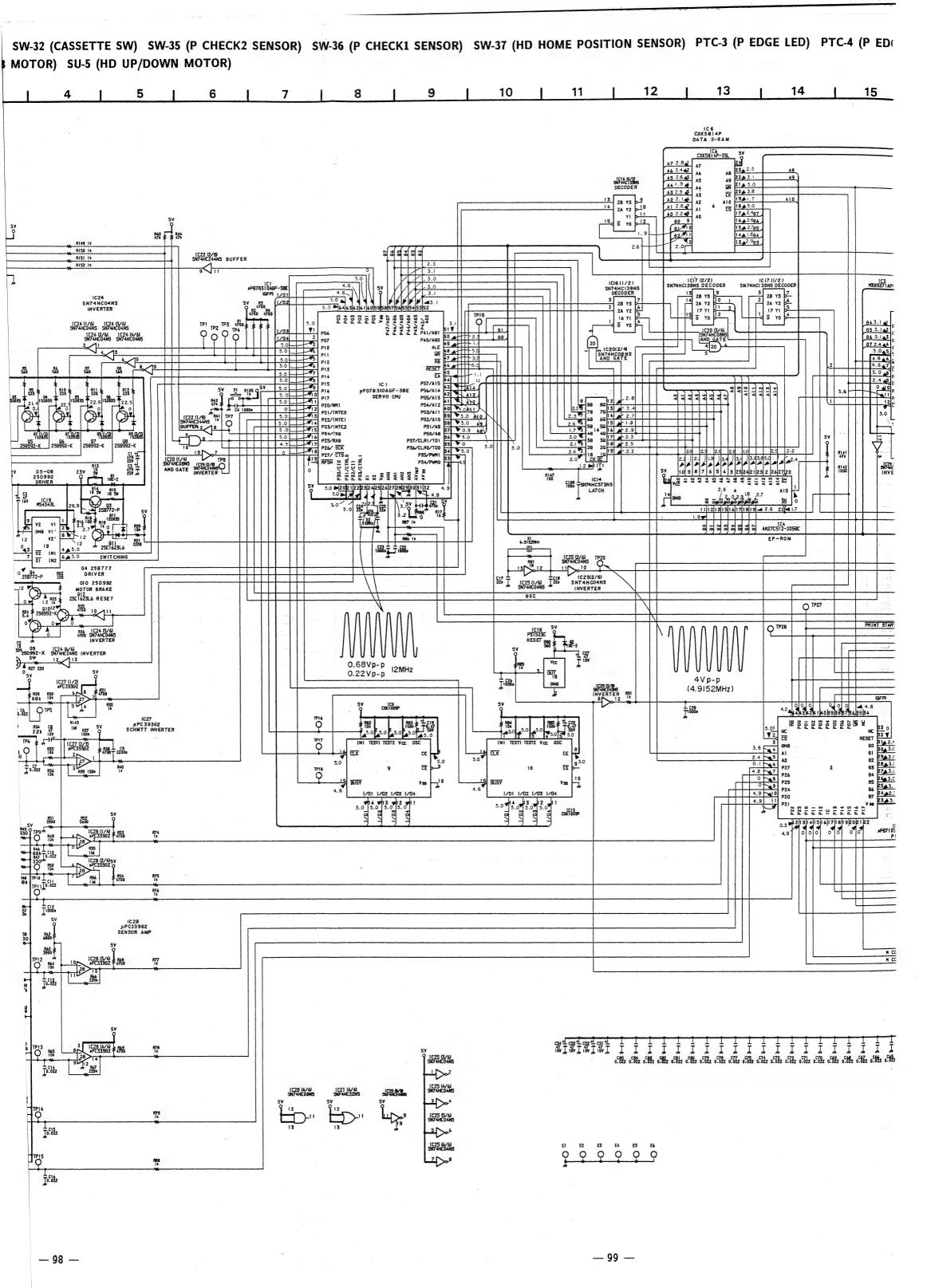
SERVO/SYSTEM SY-9

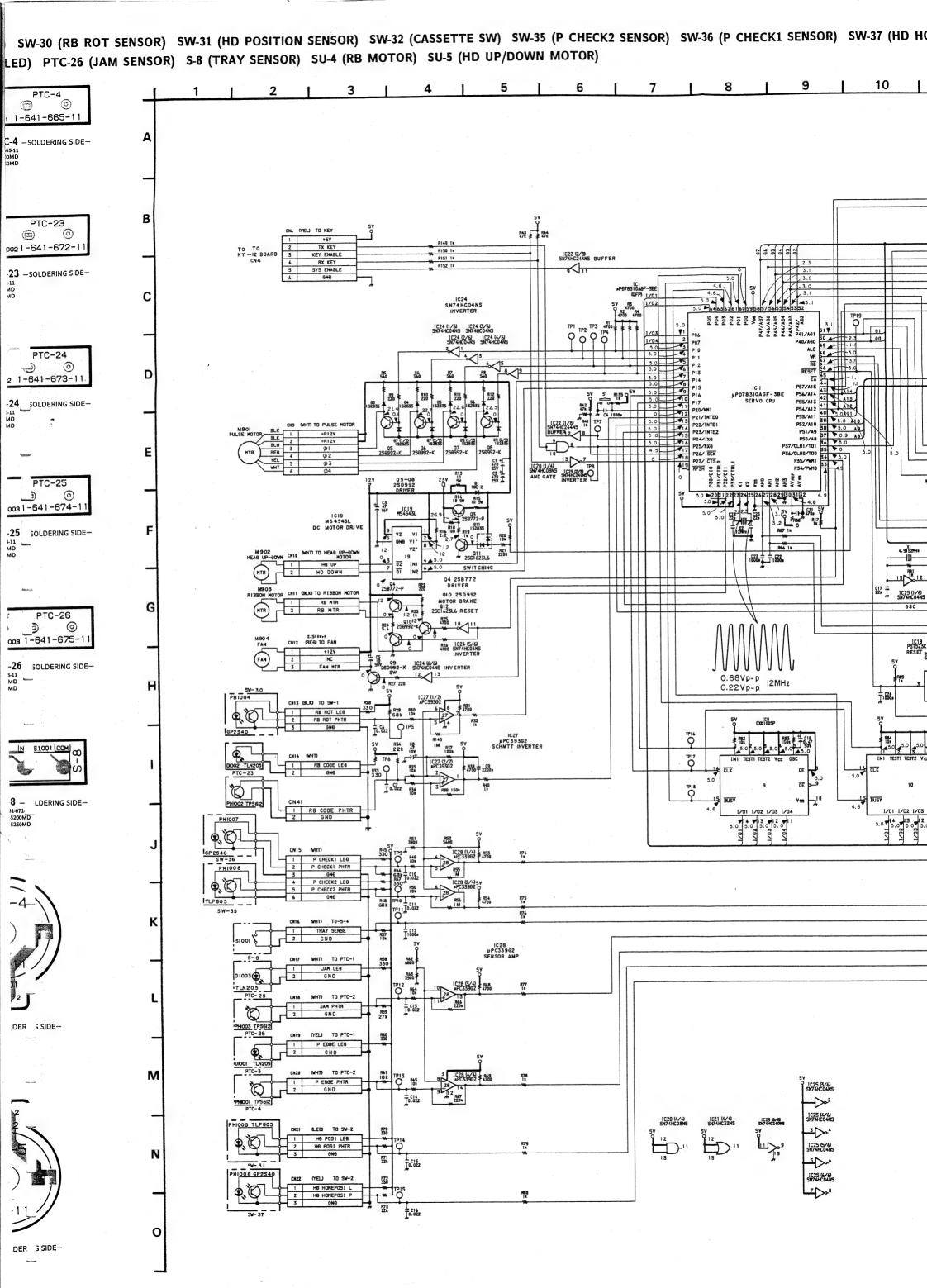
SY-9

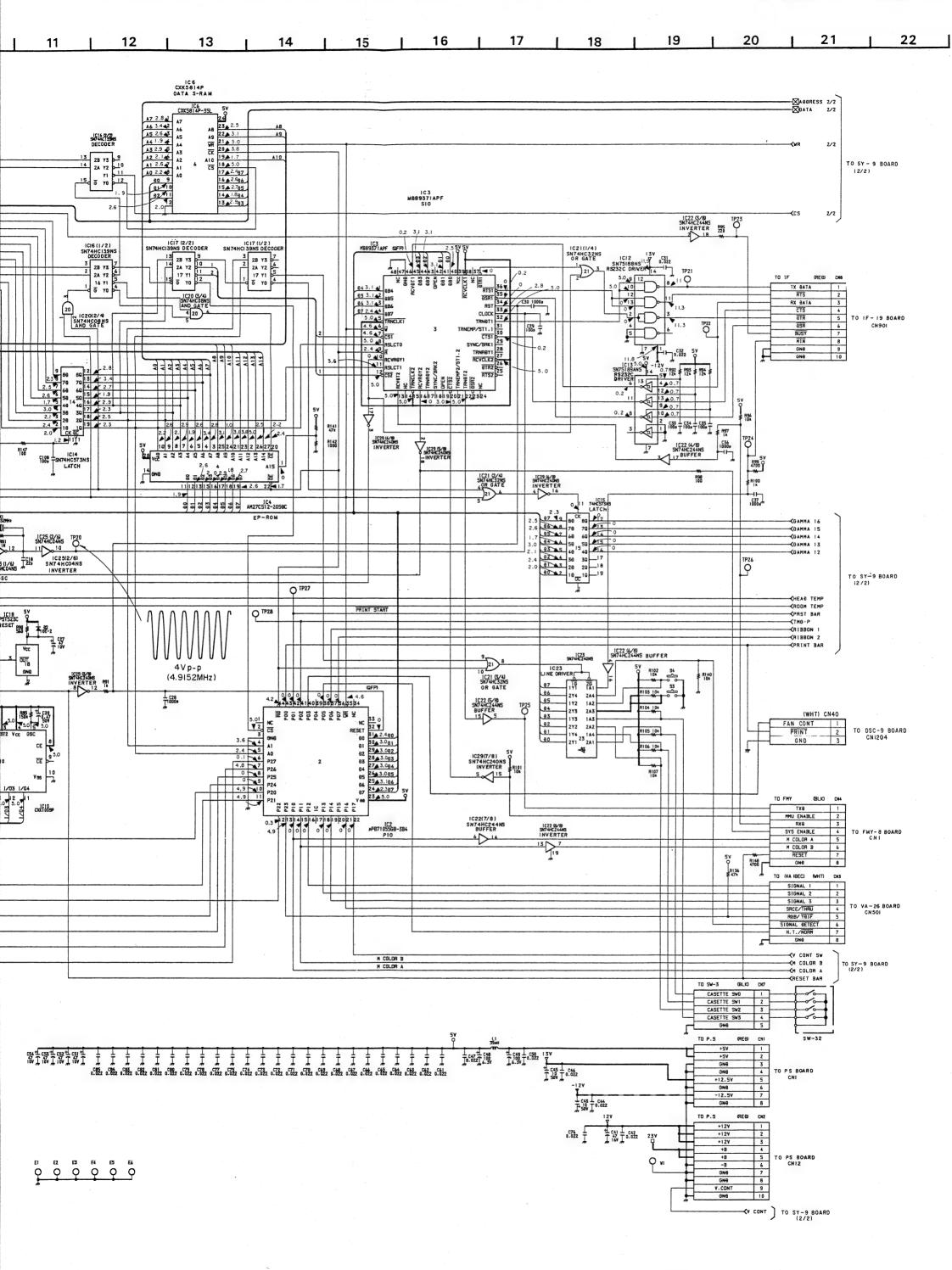
SERVO/SYSTEM

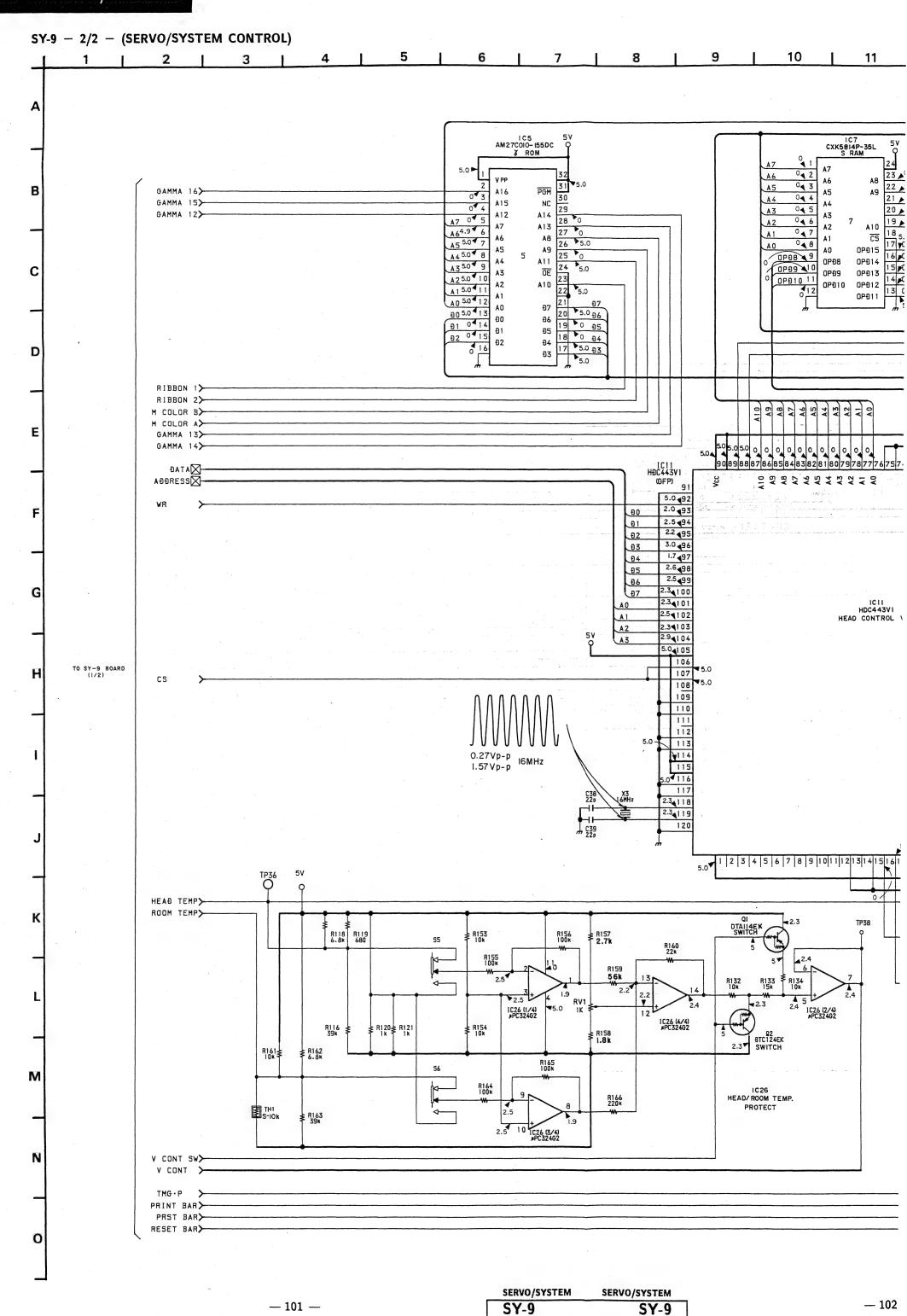
SY-9 - 1/2 - (SERVO/SYSTEM CONTROL) SW-30 (RB ROT SENSOR) SW-31 (HD POSITION SENSOR) SW-32 (CASSETT PTC-24 (RB CODE SENSOR) PTC-25 (JAM LED) PTC-26 (JAM SENSOR) S-8 (TRAY SENSOR) SU-4 (RB MOTOR) SU-5 (H

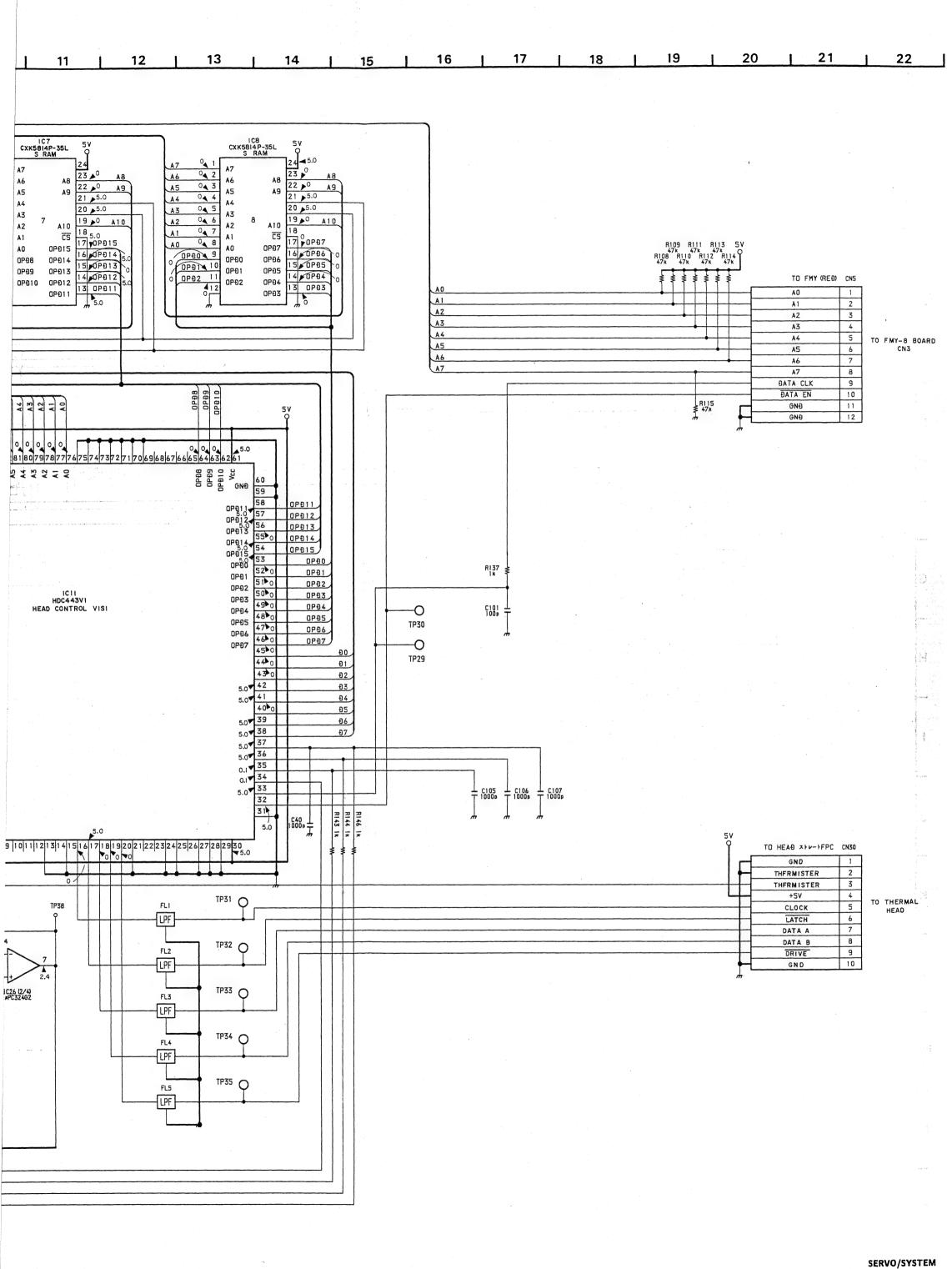


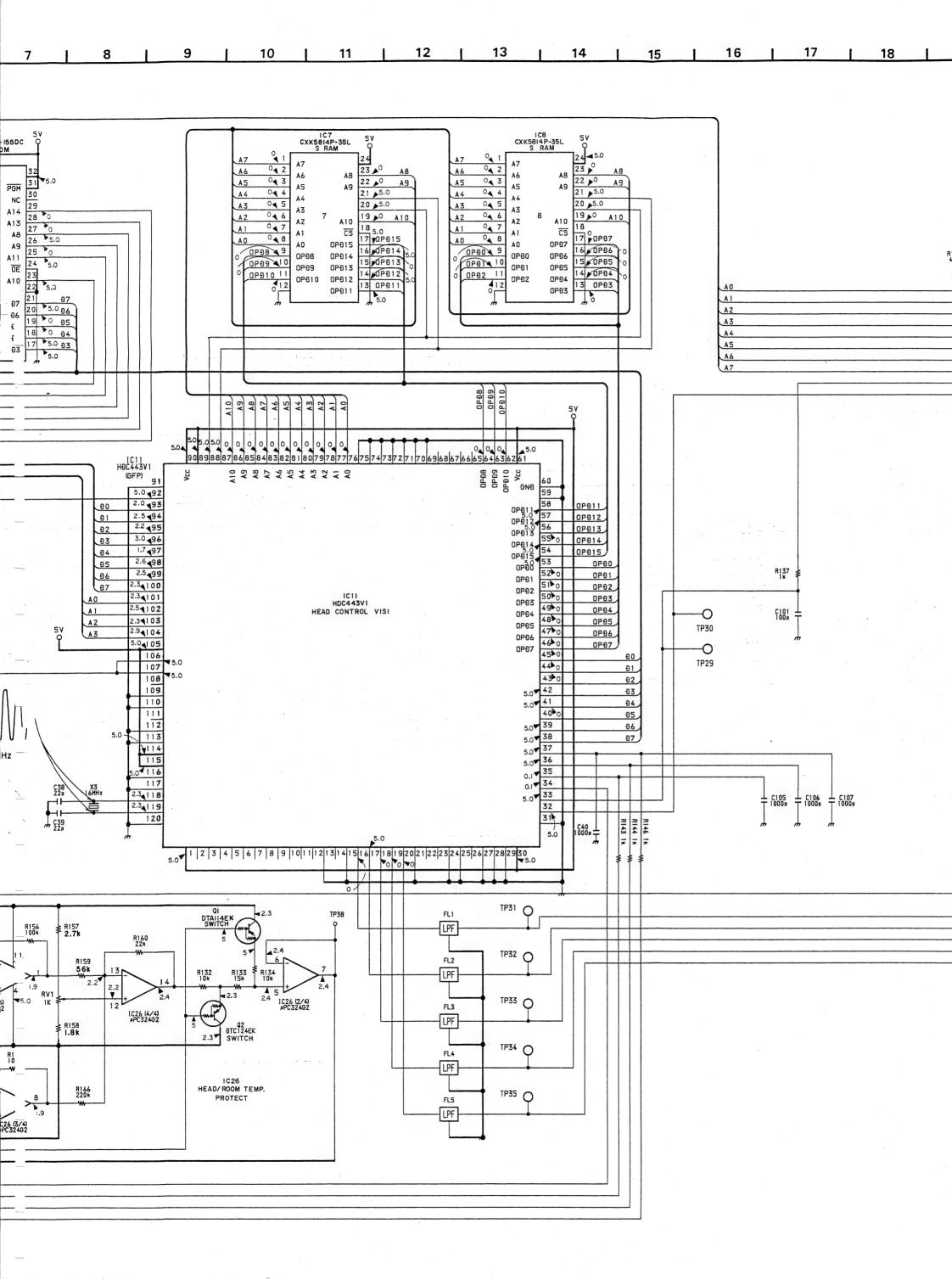






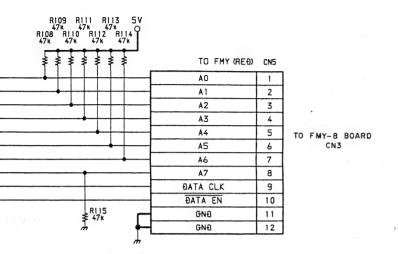




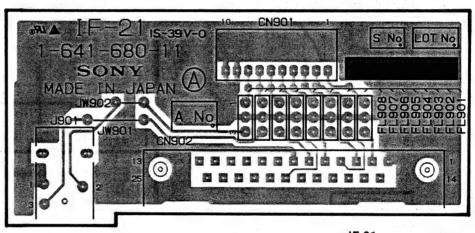


SY-9

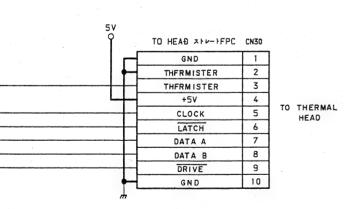
19 | 20 | 21 | 22

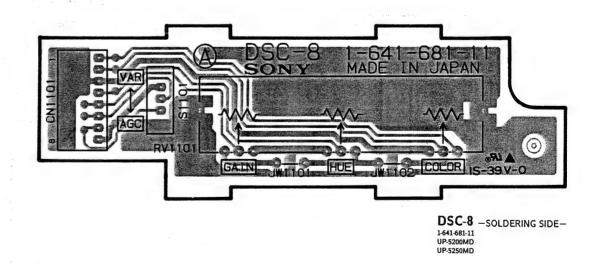


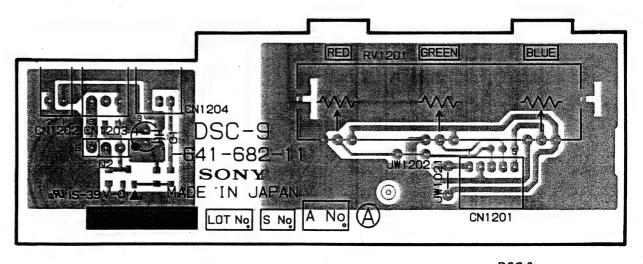
IF-21 (DATA INPUT/OUTPUT) DSC-8 (COLOR ADJUSTMENT)
DSC-9 (R.G.B. ADJUSTMENT, FAN MOTOR DRIVE)



IF-21 —SOLDERING SIDE— 1-641-680-11 UP-5200MD UP-5250MD

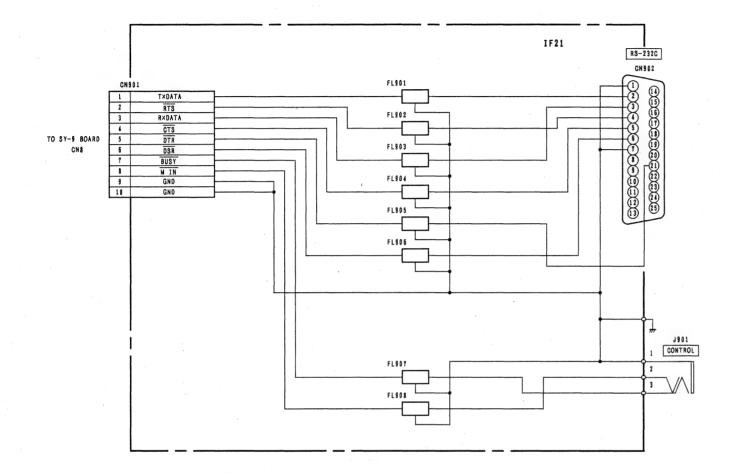


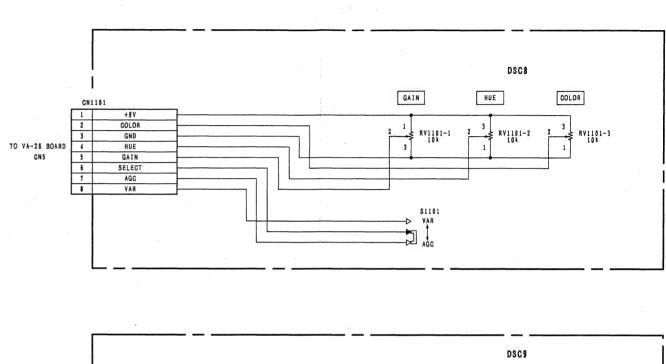


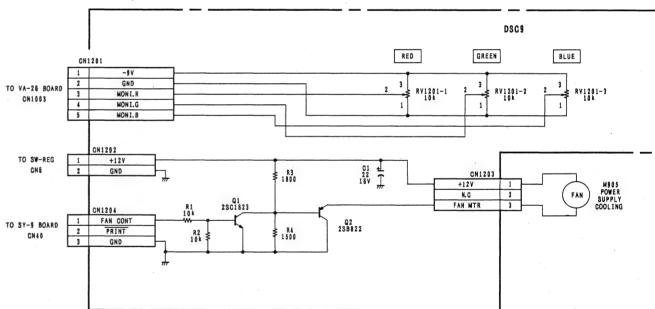


DSC-9 —SOLDERING SIDE— 1-641-682-11 UP-5200MD UP-5250MD

IF-21 (DATA INPUT/OUTPUT) DSC-8 (COLOR ADJUSTMENT) DSC-9 (R.G.B. ADJUSTMENT, FAN MOTOR DRIVE)

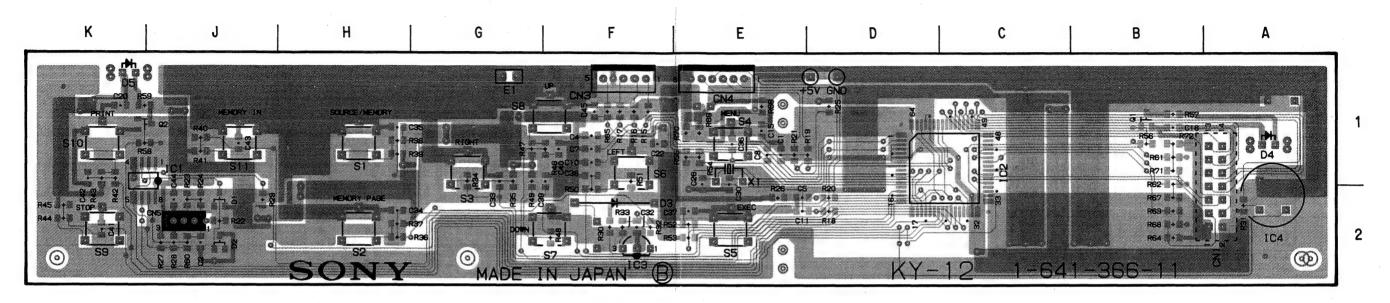






UP-5200MD/5250MD

KY-12 (FUNCTION SW)



KY-12 Board

CN1 B-1
CN3 F-1
CN4 E-1
CN5 J-2

D1 J-2 S
D2 J-2 S
D3 F-2
D4 A-1
D5 K-1

E1 G-1

IC1 J-1 S
IC2 C-1
IC3 F-2
IC4 A-2

L1 E-1

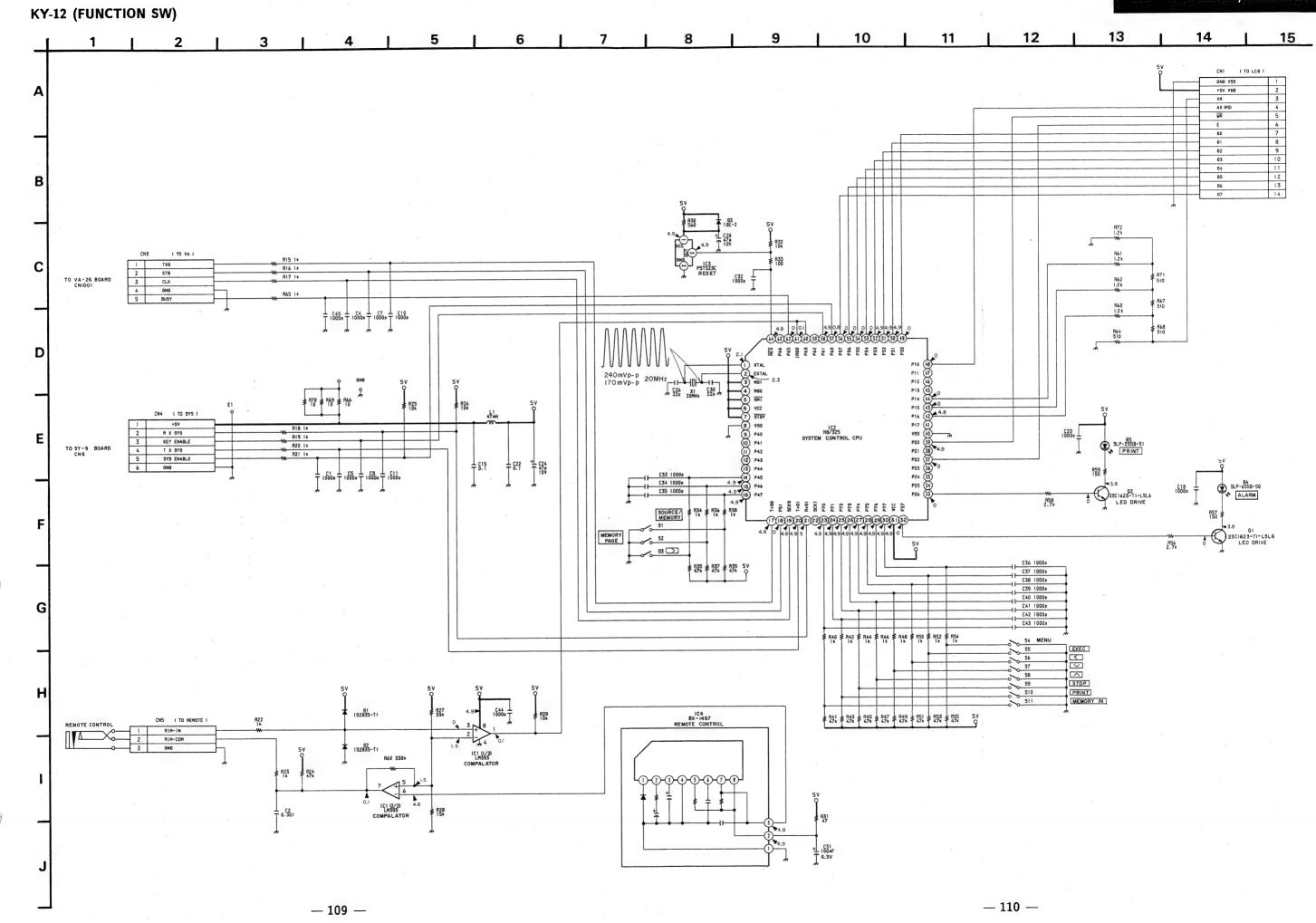
Q1 B-1 S
Q2 J-1 S
S1 H-1
S2 H-2
S3 G-1
S4 E-1
S5 E-2
S6 F-2
S7 F-2
S8 F-1
S9 K-2
S10 K-2
S11 J-1

X1 E-1

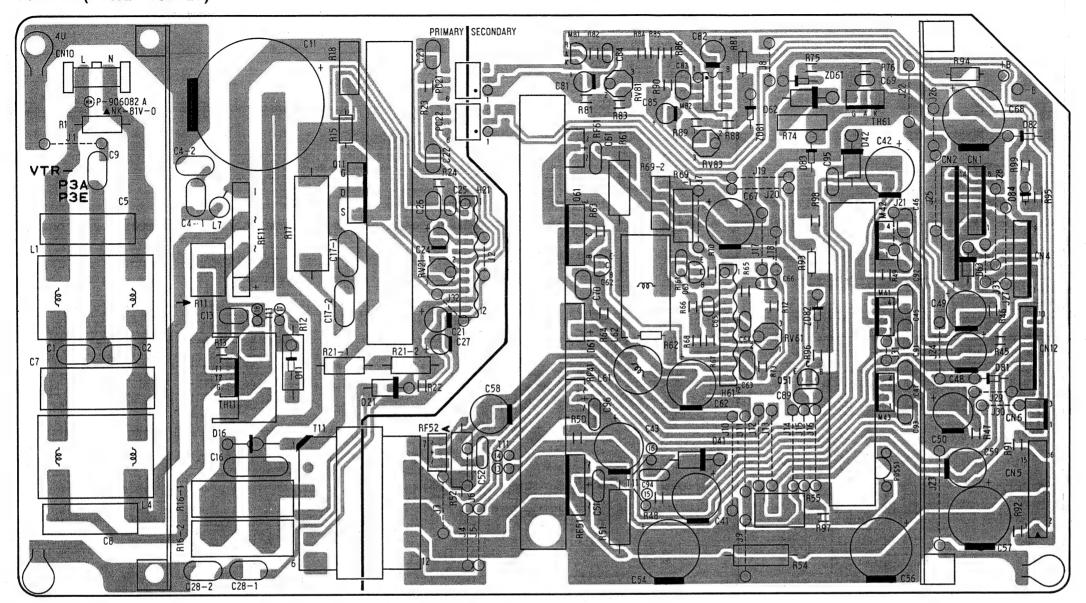
KY-12 -SOLDERING SIDE-1-641-366-11 UP-5200MD UP-5250MD

Conductor side pattern

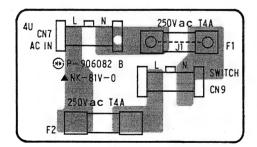
• Component side pattern



VTR-P3A (POWER SUPPLY)



P-906082A —SOLDERING SIDE— 9-901-930-01 UP-5200MD UP-5250MD



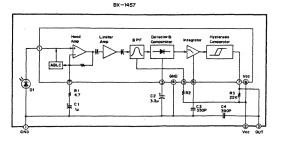
P-906082B -SOLDERING SIDE-9-902-093-01 UP-5200MD UP-5250MD

4-3. SEMICONDUCTORS

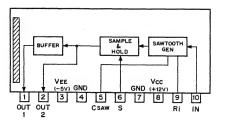
AM27C010-155DC AM27C512-205DC



BX-1457 (SONY)

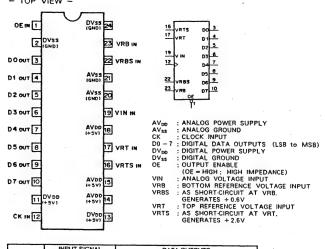


BX1461 (SONY) PHASE DETECTOR
- PRINTED SIDE



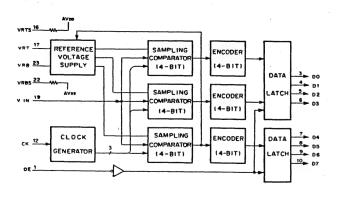
CXD1175AM (SONY) FLAT PACKAGE

C-MOS 8-BIT 20MSPS VIDEO A/D CONVERTER - TOP VIEW -

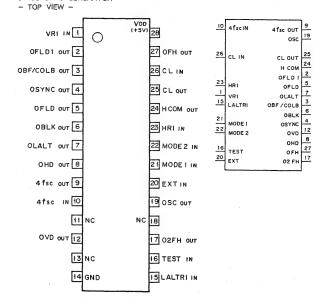


STEP	INPUT SIGNAL			D	ATA O	UTPU	TS		
31.0	VOLTAGE	D7	D6	D5	D4	D3	D2	DI	DO
0	OV (VRT)	1	1	1	1	1	1	1 1	1
1	0.01V	1	1	1	1	1	1	1	0
: -	:	1	1	1		1	1	1	:
:		1 :	1 :	1 :	1 :	1	1 :	:	:
127	1.34V	1	0	0	0	0	0	0	0
128	1.35V	0	1	1	1	1	1	1	1
:		1	1	1	1	1	1	1	:
;		1 :	1	1 :	1 :	1 :	1 :		;
255	2.7V (VRB)	0	0	0	0	0	0	0	0

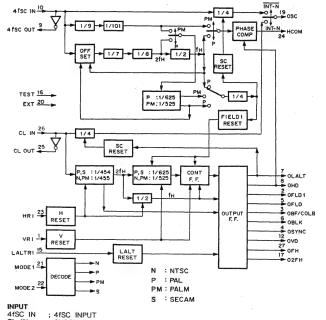
0 : LOW LEVEL 1 : HIGH LEVEL



CXD1217M (SONY) FLAT PACKAGE C-MOS SYNC GENERATOR



TE
SC
CAM
LM
AL



INPUT 4fSC IN CL IN EXT HPUT

4fSC IN : 4fSC INPUT

CL IN : CLOCK INPUT

EXT : SYNC MODE SELECT
(L: INTERNAL/+; EXTERNAL)

HRI : H RESET

LALTRI : LINE CHANGE RESET

MODE 1.2 : SYSTEM SELECT

VRI : V RESET

OUT PUT

OUT PUT

4fSC OUT; 4fSC OUTPUT

CL OUT; CLOCK OUTPUT

HCOM: PHASE COMPARATOR

O2fH: 2fH OUTPUT

OBF/COLB: BURST FLAG/COLOR BLANKING

OBLK: COMPOSITE BLANKING

OFH: H FREQUENCE

OFLD: EVEN, ODD

OFLD1: FIELD1

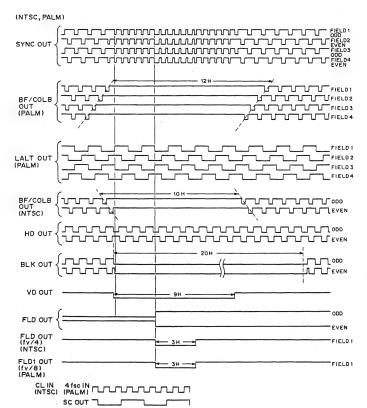
OHD: H DRIVE

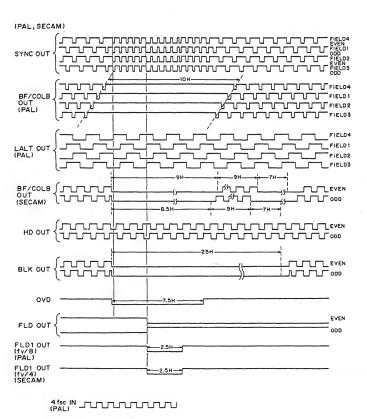
OLALT: LINE CHANGE

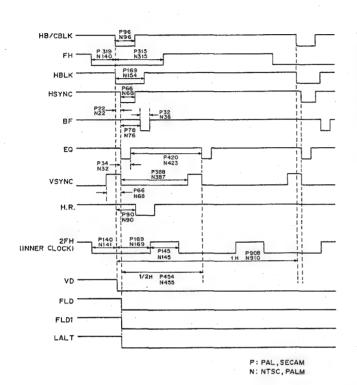
OSC SUBCARRIER

OSYNC: COMPOSITE SYNC

OVD; V DRIVE

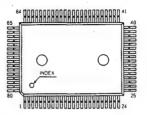






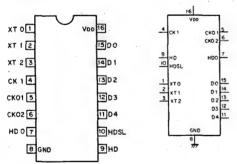
CXD8301Q (SONY)

C-MOS GATE ARRAY (VIDEO PRINTER) - TOP VIEW -



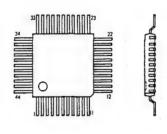
No.	Name	No.	Name	No.	Name	No.	Name
1	COLB	21	VDD	41	SEL2	61	GND
2	VDD	22	GND	42	GO	62	OB0
3	GND	23	INCO	43	G1	63	OB1
4	INAO	24	INC1	44	BA	64	OB2
5	INA1	25	INC2	45	WR	65	OB3
6	INA2	26	INC3	46	CS	66	OB4
7	INA3	27	INC4	47	N.C	67	OB5
8	INA4	28	INC5	48	N.C	68	OB6
9	INA5	29	INC6	49	VDD	69	OB7
10	INA6	30	INC7	50	GND	70	OC0
11	INA7	31	GND	51	OA0	71	GND
12	GND	32	CLK2	52	OA1	72	VDD
13	INB0	33	GND	53	GND	73	OC1
14	INB1	34	VDD	54	OA2	74	OC2
15	INB2	35	CLK1	55	OA3	75	OC3
16	INB3	36	A0	56	OA4	76	OC4
17	INB4	37	A1	57	OA5	77	OC5
18	INB5	38	N.C	58	OA6	78	OC6
19	INB6	39	SELO	59	OA7	79	OC7
20	INB7	40	SEL1	60	N.C	80	COLA



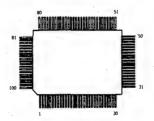


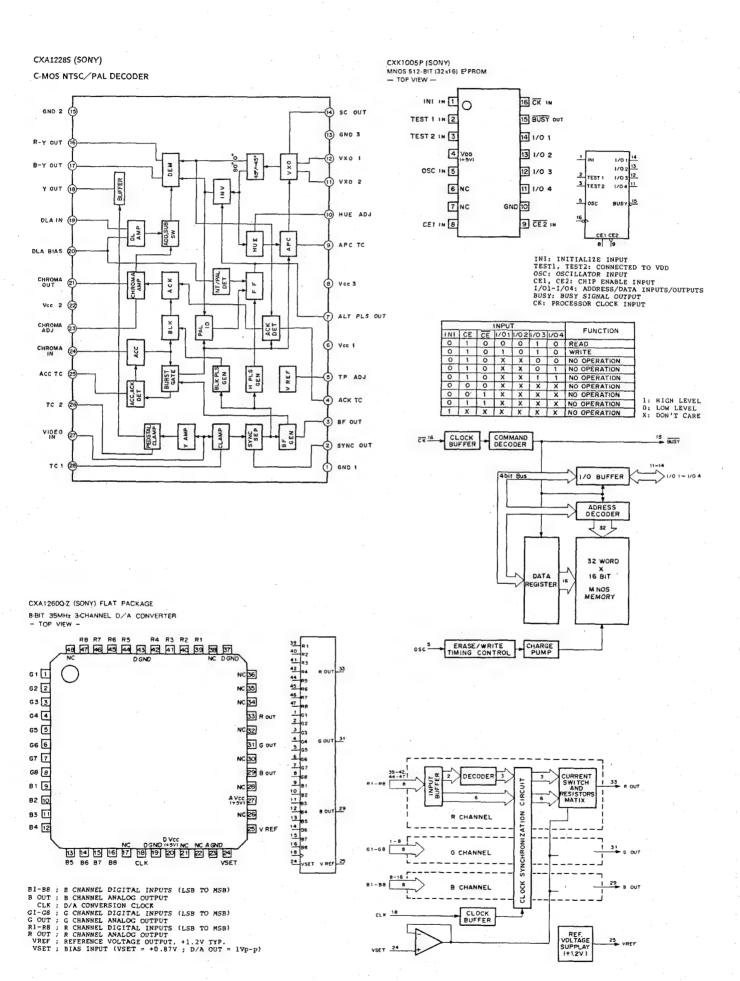
CK1 COUNTER CLOCK INPUT
CK01,02 EXTERNAL COUNTER
CLOCK OUTPUTS
DO~D4 DATA BUS INPUTS/OUTPUTS
HD HD INPUT
HDO HD OUTPUT
HDSL HD SELECT
XTO~XTZ; XTAL INPUTS/OUTPUTS

CXD8327Q (SONY)

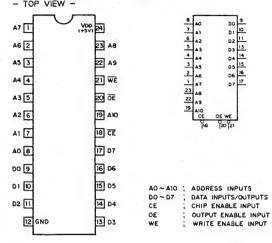


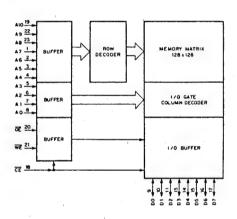
CXD8328Q (SONY) uPD65013GF-407-3BA (NEC)





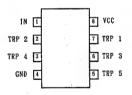
CXK5814P-35L (SONY) (ACCESS TIME = 35nS)
C-MOS 16K (2Kx8) STATIC RAM
- TOP VIEW -





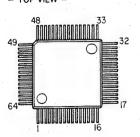
DS1000M-75(DALLAS SEMICONDUCTOR) C-MOS DELAY LINE

- TOP VIEW -

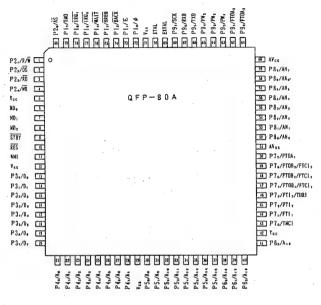


H8/325KY (HITACHI)

C-MOS 8-BIT SINGLE CHIP MICROCOMPUTER (ROM 32 KByte RAM 1 KByte) — TOP VIEW —



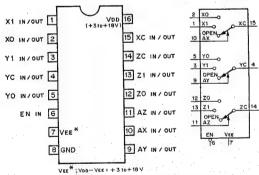
HD6435328RB13F (HITACHI)



ФН8/532 HD6475328F

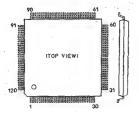
HD14053BFP (HITACHI) FLAT PACKAGE





		T. INPUTS	ON
	EN	A (X,Y,Z,)	CHANNEL
O; LOW LEVEL	0	0	0
1 HIGH LEVEL	0	1	1.
X: DON'T CARE.	1	X	OPEN
	-		

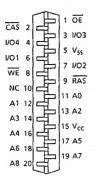
HDC443V2 (HITACHI) - TOP VIEW -



No.	1/0	Name									
1	-	VDD	31		GND	61	-	VDD	91	-	GND
2	0	DTT0	32	0	DTE	62	1/0	DAA	92	1	WR
3	0	DTT1	33	1	DCK	63	1/0	DA9	93	1	DDD0
4	0	DTT2	34	I	TMGP	64	1/0	DA8	94	1	DDD1
5	0	DTT3	35	1_	PRIN	65	0	CHOO	95	-1	DDD2
6	0	DTT4	36	1	PRNS	66	0	AFOO	96	T	DDD3
7	0	DTT5	37	1	RESE	67	0	AAAB	97	1	DDD4
8	0	DTT6	38	1	L17	68	0	ABBB	98	T	DDD5
9	0	DTT7	39	1	LI6	69	1	TSA	99	1	DDD6
10	0	DTT8	40	1	LI5	70	1	TSB	100	1	DDD7
11	0	DTT9	41	ı	LI4	71	1	RWA	101	1	AOA
12	0	DTTA	42	1	LI3	72	1	RWB	102	1	A1A
13	I	T107	43	1	LI2	73	ı	RWC	103	1	A2A
14	0	TO04	44	L	LII	74	1	LG	104	ī	A3A
15	-	GND	45	1	LIO	75	-	GND	105	1	C52
16	0	HDC	46	1/0	DA7	76	1/0	AD0	106	T	CS1
17	0	STOB	47	1/0	DA6	77	1/0	AD1	107	1	CS0
18	0	DATA	48	1/0	DA5	78	1/0	AD2	108	0	TO02
19	0	DATB	49	1/0	DA4	79	1/0	AD3	109	1	T103
20	0	DRV	50	1/0	DA3	80	1/0	AD4	110	J	T104
21	T	TI08	51	1/0	DA2	81	1/0	AD5	111	0	TO03
22	0	TO05	52	1/0	DA1	82	1/0	AD6	112	1	T105
23	0	TO01	53	1/0	DA0	83	1/0	AD7	113	1	T106
24	. 1	TI01	54	1/0	DAF	84	1/0	AD8	114	1	TSNR
25	1	T102	55	1/0	DAE	85	1/0	AD9	115	1	TWEB
26	0	TO06	56	1/0	DAD	86	1/0	ADA	116	1	TTOE
27	1	T110	57	1/0	DAC	87	0	OPTW	117	1	TTCS
28	1	T 11	58	1/0	DAB	88	0	OPTO	118	1	CLOK
29	1	T109	59	1	IOEN	89	1	OLD	119	0	oso
30	-	VDD	60	-	GND	90	-	VDD	120	-	GND

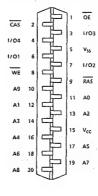
HM514256AZP-8 (HITACHI)

C-MOS RAMDOM ACCESS MEMORY



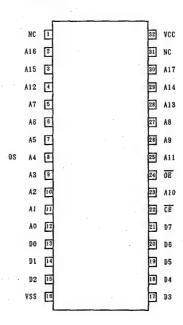
HM51H240AZP-8 (HITACHI)

C-MOS RAMDOM ACCESS MEMORY



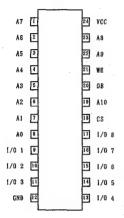
HNG2302BF-*** (H!TACHI) C-MOS 252144×8-bit MASK PROGRAMMABLE READ ONLY MEMORY

- TOP VIEW -

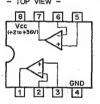


IDT6116SA35TP(IDT) C-MDS 2K×8 BIT STATIC RANDOM ACCESS MEMORY

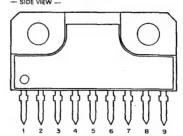
- TOP VIEW -

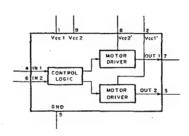


LM393PS (TI) FLAT PACKAGE UPC393G2 (NEC) FLAT PACKAGE DUAL VOLTAGE COMPARATORS - TOP VIEW -



M54543L (MITSUBISHI) BI-DIRECTIONAL MOTOR DRIVER -- SIDE VIEW --



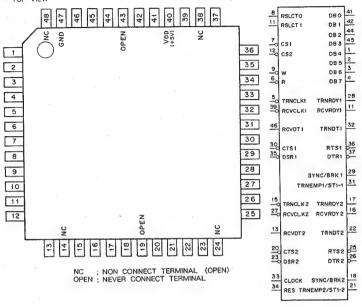


13	N	01	JT	MODE	\neg
1	2	1	2	MODE	- 1
0	0	Z	Z	NO OPERATION	
1	0	1	0	ROTATION	
0	1	0	1	REVERSE ROTATION	
1	1	0	0	BRAKE	

- O: LOW LEVEL
- 1 : HIGH LEVEL 2 : HIGH IMPEDANC

MB89371APF (FUJITSU) FLAT PACKAGE

C-MOS DUAL SERIAL DATA TRANSMITTER/RECEIVER UNIT



INPUT
CLOCK
CSn
CHIP SELECT OF CHANNELn.(n = 1 OR 2)
CT5n
CSn
CLEAR TO SEND OF CHANNELn.(n = 1 OR 2)
DSRn
CATA SET READY OF CHANNELn.(n = 1 OR 2)
CREAD COLOR
CCULK
CCUL

OUTPUT DTRn RCVRDYn RTSn TRNDTn TRNEMPn/ST1-n

; DATA TERMINAL READY OF CHANNELn.(n = 1 OR 2) ; RECEVIER READY OF CHANNELn.(n = 1 OR 2) ; RECUEST TO SEND OF CHANNELn.(n = 1 OR 2) ; TRANSMIT DATA OF CHANNELn.(n = 1 OR 2) ; TRANSMITTER EMPTY/BAUD RATE CLOCK OUT OF CHANNELn.(n = 1 OR 2) ; TRANSMIT READY OF CHANNELn.(n = 1 OR 2)

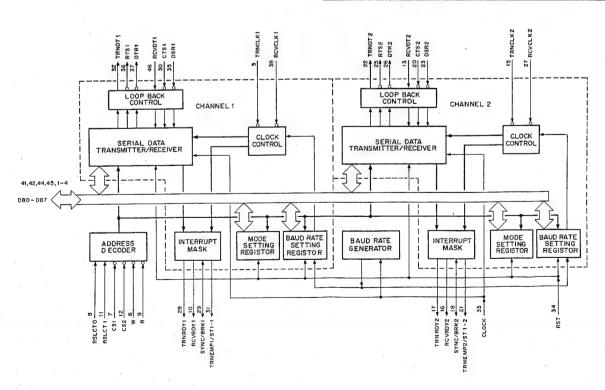
INPUT/OUTPUT DBn SYNC/BRKn

; DATA BUS LINEn.(n = 0 TO $\overline{}$ 7) ; SYNCHRONIZATION CHARACTOR/BREAK CODE DETECT OF CHANNELn.(n = 1 OR 2)

NC OPEN ; NON CONNECT TERMINAL (OPEN) : NEVER CONNECT TERMINAL

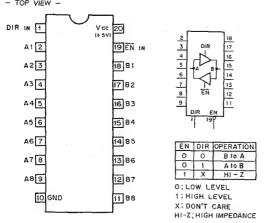
 $(V_{00} = +5V)$

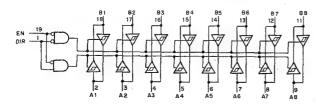
PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL
1	1/0	D84	17	0	TRNRDY2	33	1	CLOCK
2	1/0	DB5	18	1/0	SYNC/BRK2	34	1	RST
3	1/0	DB6	19	-	OPEN	35	1	DSR1
4	1/0	DB7	20	1	CTS2	36	0	RTS1
5	1.	TRNCLK1	21	. 0	TRNEMP2/ST1-2	37	1	DTR1
6	1	W	22	0	TRNDT2	38	-	NC
7	1	CS1	23	0	DSR2	39	1	RCVCLK1
8	1	RSLCT0	24	-	NC	40	-	Von
9	1	R	25	0	RTS2	41	1/0	DB0
10	0	RCVRDY1	26	0	DTR2	42	1/0	DB1
11	1	RSLCT1	27	1	RCVCLK2	43	-	OPEN
12	1	CS2	28	0	TRNRDY1	44	1/0	DB2
13	1	RCVDT2	29	1/0	SYNC/BRK1	45	1/0	DB3
14	-	NC	30	1 .	CTS1	46	1	RCVDT1
15	1	TRNCLK2	31	0	TRNEMP1/ST1-1	47	-	GND
16	0	RCVRDY2	32	0	TRNDT1	48	-	NC ,



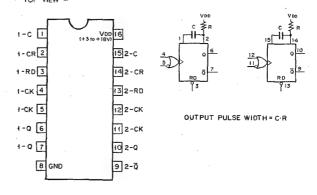
MC74F245M (MOTOROLA) FLAT PACKAGE

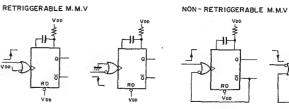
TTL BILATERAL SCHMITT TRIGGER BUS TRANSCEIVERS WITH 3-STATE
OUTPUTS
- TOP VIEW -

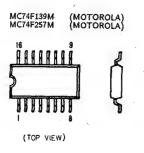


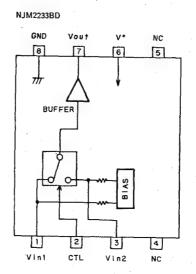


MC14538BF (MOTOROLA) FLAT PACKAGE
C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
- TOP VIEW -



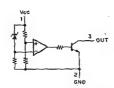






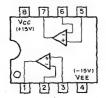
PST523C (MITSUMI) 4.5V SYSTEM RESETTING DEVICE



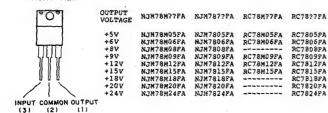


REF.; REFERENCE VOLTAGE

RC4560M (RAYTHEON) FLAT PACKAGE DUAL OPERATIONAL AMPLIFIER - TOP VIEW -

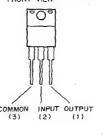


RC7809FA (RAYTHEON) POSITIVE VOLTAGE REGULATOR - FRONT VIEW -





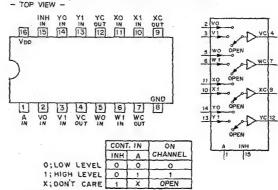
RC7905FA (RAYTHEON) - 5V RC7909FA (RAYTHEON) - 9V NEGATIVE VOLTAGE REGULATOR - FRONT VIEW -





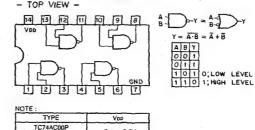
SN74HC257NS (TI) FLAT PACKAGE

C-MOS 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER — TOP VIEW —

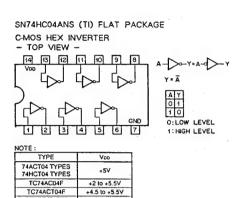


TYPE	Voo
74AC/74HC	+2 to +6V
74ACT	+5V
C74AC257F	+2 to +5.5V

SN74HC00ANS (TI) FLAT PACKAGE C-MOS QUAD 2-INPUT NAND GATE

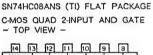


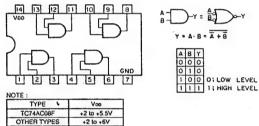
RC7805FA RC7806FA RC7808FA RC7809FA RC7812FA RC7815FA RC7818FA RC7820FA RC7824FA



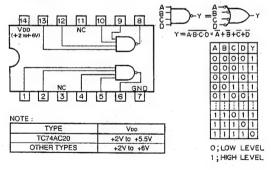
+4.5 to +5.5V

OTHER TYPES



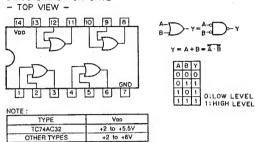


SN74HC20ANS (TI) FLAT PACKAGE C-MOS 4-INPUT POSITIVE-NAND GATE



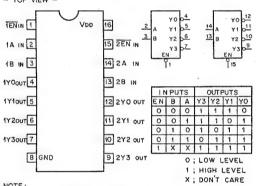
SN74HC32ANS (TI) FLAT PACKAGE

C-MOS 2-INPUT OR GATE



SN74HC139ANS (TI) FLAT PACKAGE

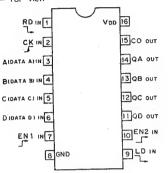
C-MOS DUAL 2-TO-4 DECODER/DEMULTIPLEXER - TOP VIEW -



TYPE	Voo
74AC/74HC	+2 to +6V
74ACT	+5V
TC74AC139	+2 to +5.5V

SN74HC163ANS (TI) FLAT PACKAGE

C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER - TOP VIEW -



CON	VTRO	_ INP	UTS	MODE
Rο	LD	EN1	EN2	WIODE
0	х	×	×	RESET (SYNCHRONOUS)
1	0	×	x	PRESET (SYNCHRONOUS)
1	- 1	0	X	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1	COUNT

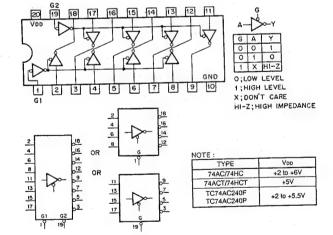
CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15"

TYPE	Von
74ACT	+ 5V
TC74AC163	+2 to +5.5V
OTHER TYPES	+2 to +6V

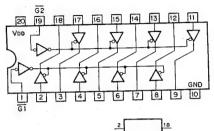
le le	
3 LD	OA 14
4 B	QB 13
5 C.	QC 12
_6 D	QD 11
2	
7 EN1	CO 15
10 EN2	
Ro	
'	

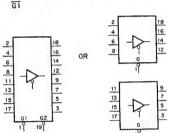
COUNT SEQUENCE						
	OUTPUTS					
COUNT	QD	QC	QB	QA		
0	0	0	0	0		
1	0	0	0	1		
2	0	0	1	0		
3	0.	0	1	1		
4	0	1	0	0		
5	0	1	0	1		
6	0	1	1	0		
7	0	1	1	1	l	
8	1	0	0	0		
9	1	0	0	1		
10	1	0	1	0		
11	1	0	1	1	l	
12	1	1	0	0	l	
13	1	1	0	1		
14	1	1	1_	0	l	
15	1	1	1	1	l	

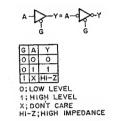
SN74HC240ANS (TI) FLAT PACKAGE C-MOS 3-STATE INVERTER/LINE DRIVER - TOP VIEW -



SN74HCT244ANS (TI) FLAT PACKAGE C-MOS BUS BUFFER WITH 3-STATE OUTPUTS - TOP VIEW -

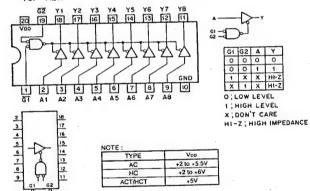


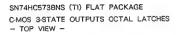


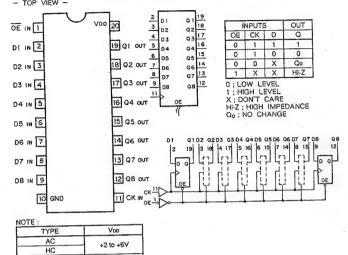


NOTE:	
TYPE	Voo
AC HC 40H	+2 to +6V
ACT HCT	+5V

SN74HC541ANS (TI) FLAT PACKAGE C.MOS BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS - TOP VIEW -

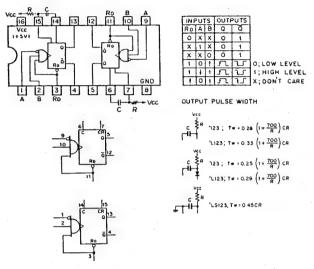






SN74LS123NS (TI) FLAT PACKAGE

TTL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR WITH DIRECT RESET TOP VIEW -



SN74HC574ANS (TI) FLAT PACKAGE

ACT

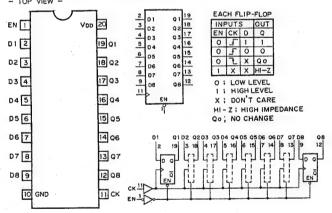
TC74AC57

C-MOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP - TOP VIEW -

+2 to +6V

+5V

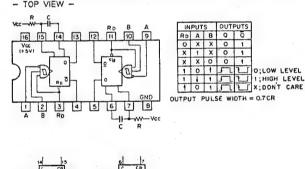
+2 to +5.5V

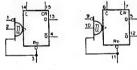


TYPE	Voo
74AC/74HC	+2 to +6V
74ACT/74HCT	+5٧
TC74AC574F	+2 to +5.5V

SN74LS221NS (TI) FLAT PACKAGE

TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT TOP VIEW -





SN75188NS (TI) FLAT PACKAGE

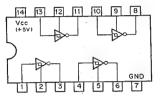
2-INPUT (1-INPUT) POSITIVE-NAND LINE DRIVER

14 13 12 9 8 $Y = \overline{A \cdot B} = \overline{A} + \overline{B}$ A B Y
0 0 1
0 1 1 101 1 1 0 1: HIGH LEVEL 3 6

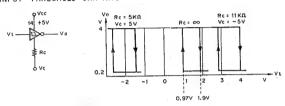
SN75189ANS (TI) FLAT PACKAGE

QUADRUPLE LINE RECEIVER

TOP VIEW -



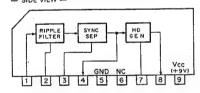
INPUT THRESHOLD SHIFTING



INPUT NOISE FILTERING

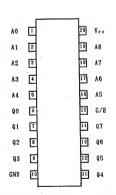


TA7357AP (TOSHIBA)
SYNC SEPARATOR/HD PULSE GENERATOR
— SIDE VIEW —

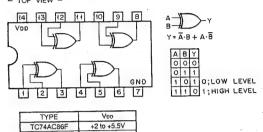


TBP28L42N(T1)
TTL 4096 BIT PROGRAMABLE READ ONLY MEMORY

- TOP VIEW -

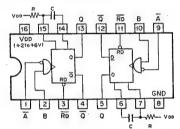


TC74HC86AF (TOSHIBA) FLAT PACKAGE C-MOS EXCLUSIVE OR GATE

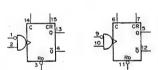


TC74HC123AF (TOSHIBA) FLAT PACKAGE

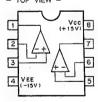
C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR — TOP VIEW —

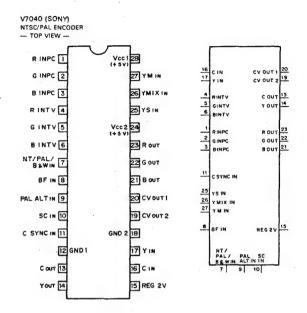


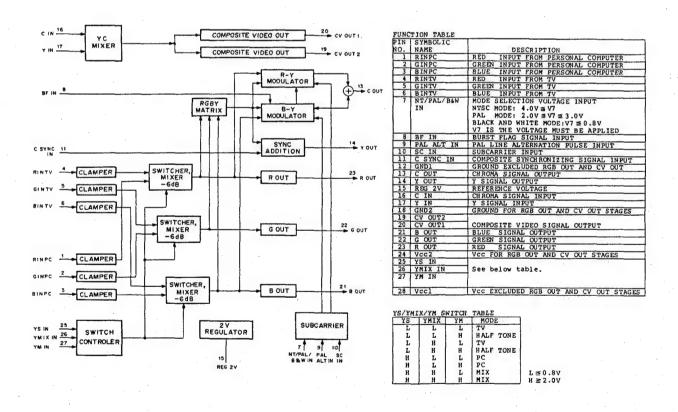
11	NPU	T	OUT	PUT				
RD	Α	В	Q	Ď				
0	Х	X	0	1				
1	1	X	0	1	•			
4	Х	0	0	1				
1	0	.5	FL	1	O ; LOW LEVEL			
1	T_	1	FL	J.J	1; HIGH LEVEL			
	0	1	1	1	X; DON'T CARE			
OUT	OUTPUT PULSE WIDTH * 0.46CR							



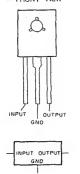
TL082CPS (TI) FLAT PACKAGE OPERATIONAL AMPLIFIER (J FET-INPUT) - TOP VIEW -





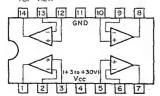


UPC78N05H (NEC) +5V POSITIVE VOLTAGE REGULATOR - FRONT VIEW -



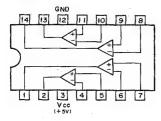
UPC324G2 (NEC) FLAT PACKAGE

QUAD. OP AMPLIFIER - TOP VIEW -



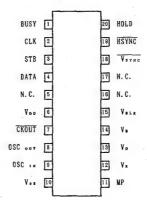
UPC339G2 (NEC) FLAT PACKAGE

COMPARATOR - TOP VIEW -

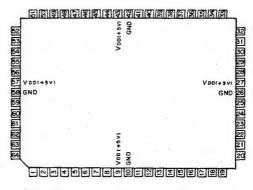


UPD6451AGT(NEC) C-MOS ON DISPLAY CHARACTOR GENERATOR

- TOP VIEW -

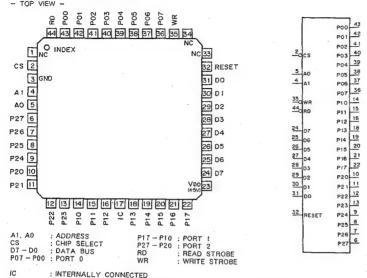


uPD65006GF-250-3B8 (NEC) C-MOS — TOP VIEW —



PIN NO.	PIN	PIN NO.	PIN	PIN NO.	PIN	PIN NO.	PIN
1		17	P8	33		49	INT VD
2		18	P9	34		50	
3	MEMO HOL	19	P10	35	HDL7	51	
4	SWD HDL	20	CASI	36	HDL6	52	INT HD
5	SWD VD	21	CAS2	37	HDL5	53	INT SYNC
6	VBLK	22	CUP	38	HDL4	54	SWD HD
7	PO	23	VBLK	39	HDL3	55	MONI SYN
8	P1	24	A.EN	40	HDL2	56	SIG DET
9	VDD	25	IN/M	41	HDL1	57	V DD
10	GND	26	GND	42	GND	58	GND
11	P2	27	VDD	43	Voo	59	HD
12	P3	28	HD RET	44	D/A CK	60	SYNC
13	P4	29	HD OUT	45	RAS	61	VD
14	P5	30	RES	46	.CK	62	SPEIT
15	P6	31	HDL9	47	EXT D/A	63	SP9/SP4
16	P7 .	32	HDL8	48	INT D/A	64	IN/MEMO

UPD71055GB-3B4 (NEC) FLAT PACKAGE C-MOS PARALLEL INTERFACE UNIT - TOP VIEW -

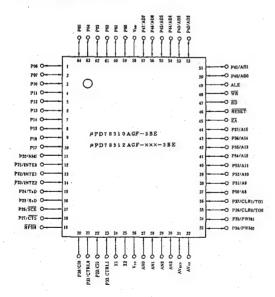


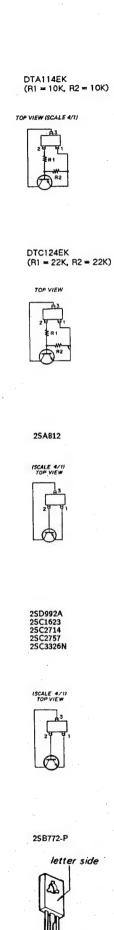
				\- L	COMMECTED		
СS	RD	WR	A 1	AO	OPERATION	CPU ACTION	
0	0	1	0	0	PROTO DATA · BUS	INPUT	
0	0	1	0	1	PROT 1 DATA - BUS	INPUT	
0.	0	1	1	0	PROT 2 → DATA · BUS	INPUT	
0	0	1	1	1			
0	0	0	Х	X	DISABLE		
0	1	0	0	0	DATA-BUS PROTO	OUTPUT	
0	1	0	0	1	DATA · BUS → PROT 1	OUTPUT	
0	1	0	1	0	DATA · BUS → PROT 2	OUTPUT	
0	1	0	1	1	DATA · BUS COMMAND REGISTER	OUTPUT	
0	1	1	Х	X			
1	X	Х	Х	X	HIGH IMPEDANCE		

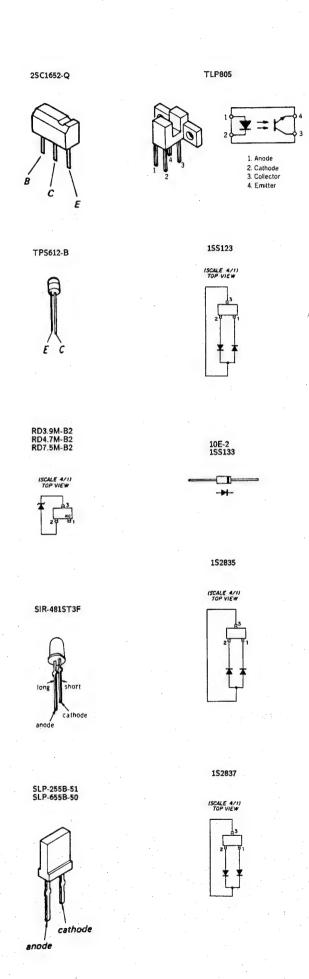
O ; LOW LEVEL 1 ; HIGH LEVEL X ; DON'T CARE

uPD78310AGF-3BE (NEC)

C-MOS 16/8 BIT ONE CHIP MICROCOMPUTER — TOP VIEW —

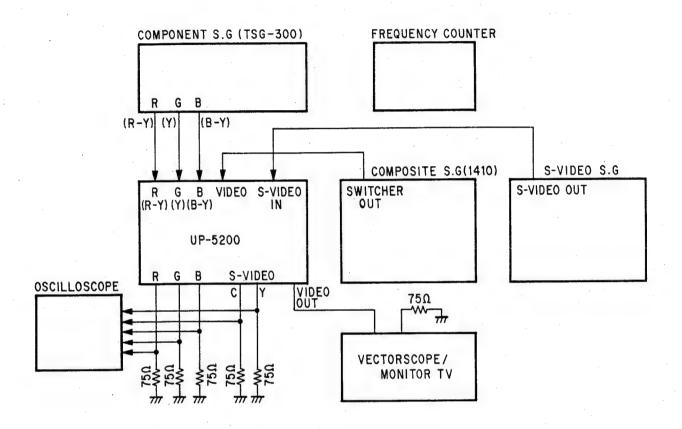






15V101

SECTION 5 ELECTRICAL ADJUSTMENTS



- The volume of the front panel shall all be set to the center click position. (GAIN, HUE, COLOR)
- The volume of the rear panel shall all be set to the center click position. (R , G , B) $\,$
- · Rear panel

VIDEO 75 Ω SW : Set to ON R.G.B 75 Ω SW : Set to ON

R.G.B / R-Y , B-Y SW : Set to RGB

· Set the AGC switch of the front panel to manual position.

- COMPOSITE S.G (1410)
 FULL FIELD, AMPLE = 75%
 WHITE REF = 100 IRE
- COMPOSITE S. G (TSG-300) 100 IRE/100% COLOR BAR
- S-VIDEO S. G (TSG-130) 100 IRE/75% COLOR BAR

5 - 1. Clamp Pulse Delay Adjustment (VA-26 Board)

Composition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO	T P 205(F-5) = CH-1 T P 206(G-5) = CH-2 E 102(GND)(F-7)	R V201(F-5)
	TP205 OV 5V	
		2V/DIV μs/DIV TRIG : CH-1

5 - 2. V . BLK Pulse Post-edge Adjustment (VA-26 Board)

Composition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO	T P205(F-5) = CH-1 T P211(F-6) = CH-2	R V203(E-6)
	TP205	
	TP211	
	It is sufficient if this part is inserted between the above pulse.	TRIG : CH-2

5 - 3. V . BLK Pulse Pre-edge Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO	T P 205(F-5) = CH-1 T P 212(F-5) = CH-2	R V 204 (E-6)
	TP205	
	TP212	
	Adjust this part with the start of the above pulse.	TRIG : CH-2

5 - 4. Burst Flag Position Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO	T P 327(F-3) = CH-1 T P 328(F-3) = CH-2	R V 311 (F-4)
	TP327	
	TP328	
	$\begin{array}{c} 2\text{V/DIV} \\ 1\mu\text{s/DIV} \end{array}$ A = 5.6 \pm 0.1 μ s	TRIG : CH-1

5 - 5. APC Free-Run Frequency Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO 2. Rotate the COLOR volume (DSC-9 board) on the front panel fully counterclockwise. 3. Set S301(F-2) on the VA-26 board to ADJ.	T P 326(G-2) E 305(GND)(F-1) 3. 579545MHz ± 50Hz	R V312(F-4)
4. Rotate RV309 fully counter clockwise. 5. After adjustment, return the COLOR volume to the centerclick position and set S 301(F-2) back to NORM. 6. Perform 5-8. B-Y level adjustment.		

5 - 6. Y Level (1) Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO	T P 332(G-2) E 305(GND)(F-1)	R V304(J-3)
	$A = 714 \text{mV} \pm 10 \text{mV}$	TRIG : CH-1

5 - 7. Y Level (2) Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO	T P 323(F-3) E 305(GND)(F-1)	R V 314 (G-2)
	$A = 684 \text{mV} \pm 10 \text{mV}$	TRIG : CH-1

5 - 8. B-Y Level Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO 2. Rotate R V 315 fully clockwise.	T P 324(G-1) E 305(GND)(F-1)	RV309(F-2) = 1 RV315(G-2) = 2
	1. A = 1.27 \pm 0.02 Vp-p 2. A = 670mV \pm 20mVp-p	TRIG : CH-1

5 - 9. R-Y Level Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO	T P 325 (G-1) E 305(GND)(F-1)	R V 303 (G-2)
	$A = 670 \text{mV} \pm 20 \text{mVp-p}$	TRIG : CH-1

5 - 10. Blue Level • HUE Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO 2. Coincide the amplitudes of waveforms ①, ② and③ using RV313.	T P 317(J-1) E 304(GND)(J-3)	R V 313 (F-1) • • • A R V 308 (H-2) • • • B
Torms (a), (b) tride torms from the control of the	1 2 3	
	100 mV/DIV A = Coincide 10 μs/DIV B = 670mV ± 20mVp-p	TRIG : CH-1

5 - 11. G Level Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO	T P316(J-2)	R V 307 (J-2)
	100 mV/DIV 10 \mus/DIV	
	$A = 670 \text{mV} \pm 20 \text{mVp-p}$	TRIG : CH-1

5 - 12. R Level Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO	T P315(J-1)	R V 305 (J-2)
	$\begin{array}{c} 100~\text{mV/DIV} \\ 10~\mu\text{s/DIV} \\ \text{A = 670mV}~\pm~20\text{mV} \end{array}$	TRIG : CH-1

5 - 13. A/D Ref Level Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO • GAIN volume (DSC-9 board) :center click • AGC switch (DSC-9 board)	TP4(M-1) E1(GND)(N-3)	R V16(M-2)
:manual		
	ov	
	$A = 1.8 \pm 0.02 \text{ Vp-p}$	TRIG : CH-1

5 - 14. R Level (A/D IN) Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. • Input select = R. G. B • Input signal = 5 stair steps (TSG-300) 2. Adjust the pedestal level to 0V DC using RV9 and minimize A using RV10. 3. Alternately rotating RV2 and RV9, adjust the the pedestal level and white peak.	DC 500 mV/DIV 10 μs/DIV A = Minimum B = 1.8 ± 0.02 Vp-p	R V9(M-3) R V10(N-3) R V2(M-3)

5 - 15. G Level (A/D IN) Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. • Input select = R. G. B • Input signal = 5 stair steps (TSG-300) 2. Adjust the pedestal level to OV DC using RV8 and minimize A using RV3. 3. Alternately rotating RV4 and RV8, adjust the the pedestal level and white peak.	DC 500 mV/DIV 10 μs/DIV A = Minimum B = 1.8 ± 0.02 Vp-p	R V8(L-3) R V3(N-3) R V4(N-2)

5 - 16. B Level (A/D IN) Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. • Input select = R.G.B • Input signal = 5 stair steps (TSG-300) 2. Adjust the pedestal level to OV DC using R V7 and minimize A using R V1. 3. Alternately rotating R V6 and R V7, adjust the the pedestal level and white peak.	DC 500 mV/DIV 10 μs/DIV A = Minimum B = 1.8 ± 0.02 Vp-p	R V7(L-3) R V1(M-3) R V6(M-3)

5 - 17. R.G.B Balance Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. • Input select = R.G.B • Input signal = 5 stair steps (TSG-300) 2. Connect the oscilloscope to TP2, set its range to 200mV/div, and	T P2(N-1) T P1(P-1) T P3(N-1)	R V8(L-3) R V2(M-3) R V9(M-3) R V6(M-3) R V7(L-3)
adjust the pedestal level to OV DC using RV8. 3. Align the cursor with the third step of the 5-stair step. 4. Connect the oscilloscope to TP1 and align both the OV line and the third step of the stair step with the cursor using RV2 and RV9. 5. Connect the oscilloscope to TP3 and align both the OV line and the third step of the stair step with the cursor using RV6 and RV7.	ov —	TRIG : CH-1

5 - 18. ACK Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = COMPOSITE (1410) 2. Measure DC level at TP329, and coincide a cursole to there. 3. Coincide another cursole under 0. 4V than B. 4. Adjust RV317 so that DC level at TP331 becomes to lower cursole.	T P 329 (E-3) T P 331 (D-2) E 1005 (GND) (E-3) B A O V	RV317(E-2)
	$A = B-0.4V \pm 0.05V$	TRIG : CH-1

5 - 19. B/W Y Level Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = COMPOSITE (1410) Burst = OFF	T P 323(F-3) E 305(GND)(F-1)	R V318(H-6)
	$A = 684 \text{mV} \pm 20 \text{mV}$	TRIG : CH-1

5 - 20. Y/C SEP Y Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = COMPOSITE (1410) 2. Minimize A using LV301 and RV302. 3. Adjust B to the specification using RV316.	T P 303 (L-5)	L V301(H-6) R V302(J-6)
	set the oscilloscope to 20MHz filter IN. A = Minimum (less than 0.05 Vp-p)	
	T P 323 (G-3)	R V316(L-5) • • • B
	$B = 684 \text{mV} \pm 20 \text{mV}$	TRIG : CH-1

5 - 21.Y/C SEP C Adjustment(VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = COMPOSITE (1410) 2. Adjustment A for maximum.	T P 321 (G-3)	T I 301(H-5)
	$A = 130 \text{mV} \pm 30 \text{mVp-p}$	

5 - 22. AGC Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
 Input select = COMPOSITE (1410) Set the AGC switch (DSC-9 board) on the front panel to AUTO. Turn ON/OFF the VIDEO 75Ω switch on the rear panel. Repeat Step 3. until the specification is obtained. After adjustment, AGC switch = MANUAL 75Ω switch = ON 	T P4 (M-1) E1 (GND) (N-3) A A A OV A = 1.8 ± 0.02 V (75Ω ON) · · · (1) A = 2.75± 0.05 V (75Ω OFF) · · (2)	$RV15(K-1) = 75\Omega \text{ ON}(1)$ $RV14(L-2) = 75\Omega \text{ OFF}(2)$ TRIG : CH-1

5 - 23. AFC Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = COMPOSITE (1410)	T P205(F-5) T P1019(D-5) TP205 TP1019 $A = 240 \pm 10 \text{ ns}$	L V1004(C-7)

5 - 24. Display IC Clock Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. No signal. 2. Adjust using the frequency counter.	T P 1028(B-2) E 1003(GND)(C-2)	C V1002(C-2)
	6. OMHz ± 2KHz	
		TRIG : CH-1

5 - 25. R Level (ENC IN) Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = R. G. B. (COMPONENT) (TSG-300 : 5-stair step) 2. Set the R volume (DSC-8 board) on the rear panel to the center click	T P1001(B-3) E1001(GND)(B-3)	R V 1001 (B-2)
position.	$A = 1 \pm 0.02 \text{ V}$	TRIG : CH-1

5 - 26. G Level (ENC IN) Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = R. G. B. (COMPONENT) (TSG-300 : 5-stair step) 2. Set the G volume (DSC-8 board) on the rear panel to the center click position.	T P 1002(A-2) E 1001(GND)(B-3)	RV1002(A-2)
	$A = 1 \pm 0.02 \text{ V}$	TRIG : CH-1

5 - 27. B Level (ENC IN) Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = R. G. B. (COMPONENT) (TSG-300 : 5-stair step) 2. Set the B volume (DSC-8 board) on the rear panel to the center click position.	T P 1003(A-2) E 1001(GND)(B-3)	RV1003(A-2)
	$A = 1 \pm 0.02 \text{ V}$	TRIG : CH-1

5 - 28. Sync Generator Clock Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. No signal. 2. Adjust using the frequency counter.	T P 1027(C-4) E 1001(GND)(B-3) 14.31818 MHz ± 50Hz	C V1001(C-4)
		TRIG : CH-1

5 - 29. Burst Flag Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO	T P 205(F-5) = CH-1 T P 1024(C-3) = CH-2	R V1007(C-3) (1) R V1008(C-3) (2)
	TP1024 A B	
	A = 5.6 \pm 0.1 μ s • • • (1) B = 8.1 \pm 0.1 μ s • • • (2)	

5 - 30. R OUT Level Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = R. G. B(COMPONENT) Input signal = 5-stair step (TSG-300) 2. Terminate the R OUT on the rear panel in 75 Ω and connect the oscilloscope. 3. Set the monitor screen as shown in the figure below.		R V1009(A-6)
QTY 1A1A S QTY 2A2A S UP-5250MD UP-5250MD	$A = 700 \text{mV} \pm 20 \text{mV}$	TRIG : CH-1

5 - 31. G OUT Level Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = R.G.B(COMPONENT) Input signal = 5-stair step (TSG-300)		RV1010(A-6)
 2. Terminate the G OUT on the rear panel in 75 Ω and connect the oscilloscope. 3. Set the monitor screen as shown in 		
the figure below.		
OTY 1A1A S OTY 2A2A S		
UP-5200MD UP-5250MD	$A = 700 \text{mV} \pm 20 \text{mV}$	TRIG : CH-1

5 - 32. B OUT Level Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = R. G. B(COMPONENT) Input signal = 5-stair step (TSG-300) 2. Terminate the B OUT on the rear panel in 75 Ω and connect the oscilloscope. 3. Set the monitor screen as shown in the figure below.	A	R V1011(A-6)
UP-5200MD UP-5250MD	$A = 700 \text{mV} \pm 20 \text{mV}$	TRIG : CH-1

5 - 33. VIDEO OUT Level Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = COMPOSITE Input signal = COLOR BAR (1410) 2. Set the monitor screen as shown in the figure below. UP-5200MD 3. Adjust using RV1012 so that the oscilloscope display matches Figl. 4. Adjust using the two coils of T I 301 so that the vectorscope display matches Fig 2.	Specification $A = 1.0 \pm 0.1 \text{ Vp-p} \text{Fig. 1}$ Vectorscope 75% C 20%	RV1012(B-6) TI301(H-5)
	Cr 1 20% Fig. 2	TRIG : CH-1

5 - 34. Burst Level (S-VIDEO) Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO Input signal = 75% COLOR BAR (TSG-130) 2. Set the monitor screen as shown in the figure below. OTY 1A1A S UP-5200MD UP-5250MD	S ON	R V1005(B-7)
3. Terminate the S-VIDEO output (C-OUT) on the rear panel in 75 Ω and connect the oscilloscope. (Make a jig such as that shown in Fig. right.) 4. Adjust using R V1005 so that the burst level of the chroma signal meets the specification. (Fig. 2)	$A = 286 \text{mV} \pm 20 \text{mV}$	TRIG : CH-1

5 - 35. Y Level (S-VIDEO) Adjustment (VA-26 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = S-VIDEO Input signal = 75% COLOR BAR (TSG-130) 2. Set the monitor screen as shown in the figure below.	S ON	RV1006(C-7)
UP-5200MD 3. Terminate the S-VIDEO output (Y-OUT) on the rear panel in 75 Ω and connect the oscilloscope. (Make a jig such as that shown in Fig. right.) 4. Adjust using R V1006 so that the level from the pedestal to the white peak of the Y signal meets the specification. (Fig. 2)	$A = 714 \text{mV} \pm 20 \text{mV}$	TRIG : CH-1

5 - 36. R OUT (Through) Level Adjustment (IF-19 Board)

Condition When Adjustment	Specification	Adjusting Point
1. Input select = R.G. B(COMPONENT) Input signal = 5-stair step (TSG-300) 2. Set the unit to THROUGH. 3. Terminate the R OUT on the rear panel in 75 Ω and connect the oscilloscope.		R V401(B-1)
	$A = 700 \text{mV} \pm 20 \text{mV}$	TRIG : CH-1

5 - 37. G OUT(Through) Level Adjustment (IF-19 Board)

Condition When Adjusting	Specification	Adjusting Point		
 Input select = R. G. B(COMPONENT) Input signal = 5-Stair steps	$A = 700\text{mV} \pm 20\text{mV}$	R V501(C-1)		

5 - 38. B OUT(Through) Level Adjustment (IF-19 Board)

Condition When Adjusting	Specification	Adjusting Point		
 Input select = R. G. B(COMPONENT) Input signal = 5-Stair steps	$A = 700\text{mV} \pm 20\text{mV}$	R V 601 (D-1)		

5 - 39. SYNC Level (Through) Adjustment (IF-19 Board)

Condition When Adjusting	Specification	Adjusting Point
1. Input select = VIDEO Input signal = BLACK BURST(1410)		R V701(E-1)
2. Terminate the SYNC OUT on the rear panel in 75 Ω and connect the oscilloscope.	A T	
	$A = 286mV \pm 20mV$	

5 - 40. VIDEO OUT(Through) Level Adjustment (IF-19 Board)

Condition When Adjusting	Specification	Adjusting Point
1. Input select = COMPOSITE Input signal = 75% COLOR BAR(1410) 2. Set the AGC switch (DSC-9 board) on the front panel to AUTO. 3. After adjustment, set the AGC switch back to MANUAL.	VIDEO OUT (Rear pane!)	R V 301 (H-1)
	$A = 1.0 \pm 0.1 Vp-p$	TRIG : CH-1

5 - 41. Burst Level (S-VIDEO) Through Adjustment (IF-19 Board)

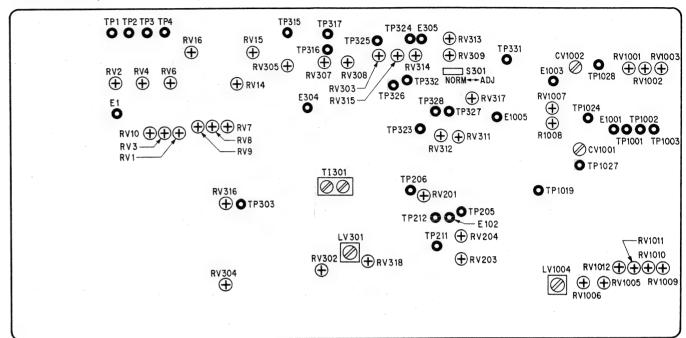
Condition When Adjusting	Specification	Adjusting Point
1. Input select = S-VIDEO Input signal = 75% COLOR BAR (TSG-130) 2. Terminate the S-VIDEO output (C- OUT) on the rear panel in 75Ω and connect the oscilloscope. (Make a jig such as that shown in Fig. right.) 3. Adjust using R V101 so that the burst level of the chroma signal meets the specification.	S-VIDEO OUT (Rear pane!) (C OUT) S ON C 75 Ω 75 Ω	R V101(F-1)
	$A = 286 \text{mV} \pm 20 \text{mV}$	TRIG : CH-1

5 - 42. Y Level (S-VIDEO) Through Adjustment (IF-19 Board)

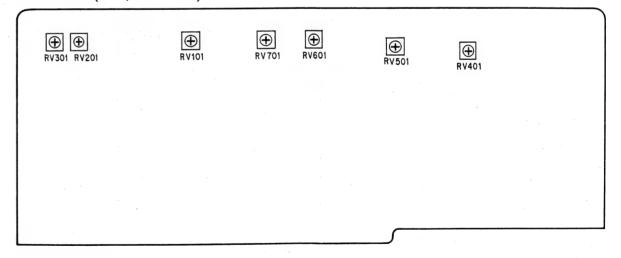
Condition When Adjusting	Specification	Adjusting Point		
1. Input select = S-VIDEO Input signal = 75% COLOR BAR (TSG-130) 2. Terminate the S-VIDEO output (Y- OUT) on the rear panel in 75Ω and connect the oscilloscope. (Make a jig such as that shown in Fig. right.) 3. Adjust using R V201 so that the burst level of the chroma signal meets the specification.	S-VIDEO OUT (Rear panel) (Y OUT) S ON C 75 \(\Omega \) A = 714mV \(\pm \) 20mV	R V 201 (H-1) TRIG : CH-1		

5-43. ADJUSTMENT ELEMENT LOCATION

VA-26 Board (Component Side)



IF-19 Board (Component Side)



SECTION 6 EXPLODED VIEWS

- · Items with no part number and no description are not stocked because they
- are seldom required for routine service.The construction parts of an assembled part are indicated with a collation number in the remark column.

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

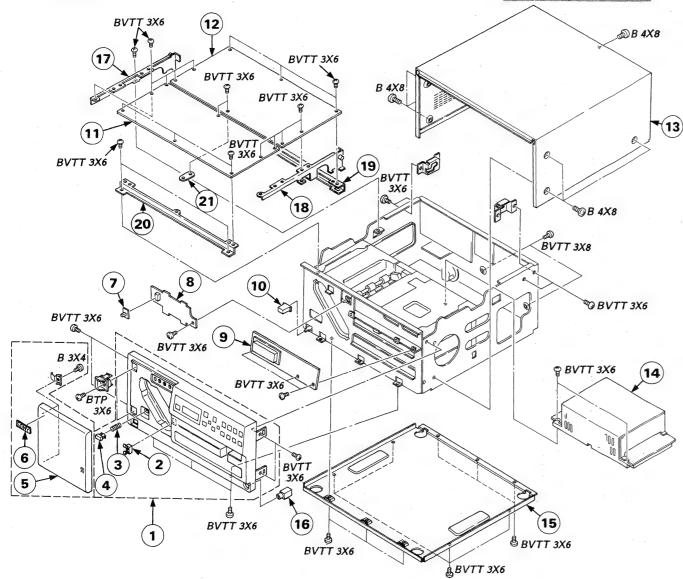
The components identified by shading and mark A are critical for safety. Replace only with part number

specified.

Les composants identifies pa une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

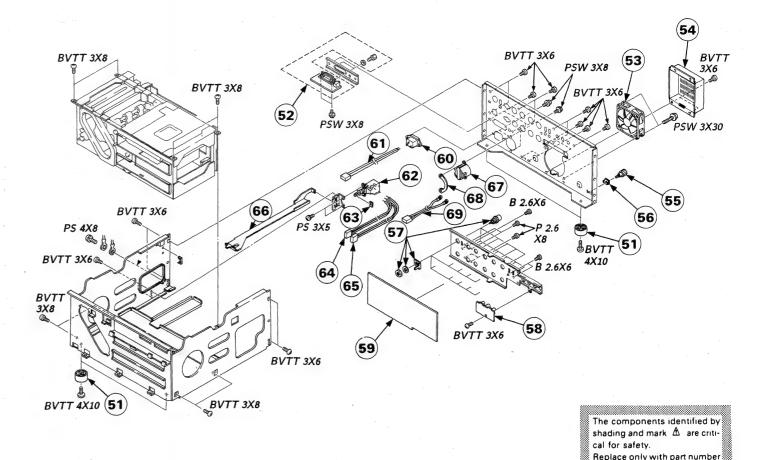
Remark

6-1. CABINET



Part No. Description Remark | Ref. No Part No. Description *A-8271-105-A (5250MD) FMY-8 BOARD, COMPLETE *A-8266-079-A (5200MD) PANEL ASSY, FRONT Incl. 2-4 *A-8266-080-A (5250MD) PANEL ASSY, FRONT Incl. 2-4 *A-8271-106-A VA-26 BOARD, COMPLETE 4-392-036-01 CATCH, PUSH *3-173-857-01 CASE, UPPER 4-864-519-02 SPRING, COMPRESSION 14 A. *1-413-688-11 REGULATOR, SWITCHING (VTR-P3A) 3-725-631-01 BUTTON, CARTRIDGE *3-725-637-03 PLATE, BOTTOM A-8266-081-A DOOR ASSY, RIBBON 1-507-195-21 SPECIAL REMOTE CONTROL JACK Incl. 6 3-718-322-02 EMBLEM, SONY 17 *X-3166-421-1 BRACKET (L) ASSY, PC BOARD 3-725-635-01 KNOB (AGC), SLIDE *X-3166-420-1 BRACKET (R) ASSY, PC BOARD *A-8276-144-A MOUNTED PCB, DSC-8 *3-173-082-02 BRACKET, PC BOARD SUPPORT *3-173-081-01 BRACKET (B), PC BOARD *A-8276-147-A MOUNTED PCB, KY-12 2-431-568-31 BUTTON, POWER *3-173-858-01 JOINT *A-8271-104-A (5200MD) FMY-8 BOARD, COMPLETE

6-2. CHASSIS



Ref.No	Part No.	Description Remark	Ref.N	o Part No.	Description Remark
51 52 53 54 55	X-3316-715-1 *A-8276-145-A 1-541-593-22 *3-173-085-01 X-2068-004-0	FOOT ASSY MOUNTED PCB, IF-21 MOTOR, DC FAN COVER, FAN TERMINAL ASSY	62 63 64	3-725-616-01 *1-949-385-11	HARNESS (AC(IN)) SWITCH, PUSH (AC POWER) (1 KBY) STOPPER, ROD HARNESS (AC(SW1)) HARNESS (AC(SW2))
56 57 58 59 60 ▲	2-068-008-00 1-562-227-21 *A-8276-146-A *A-8271-103-A . 1-580-375-11	WASHER RECEPTACLE, BNC MOUNTED PCB, DSC-9 IF-19 BOARD, COMPLETE INLET 3P	68	*3-651-491-00	PLATE, LOD, SW CONNECTOR, AC OUTLET NUT, PLATE (AC) HARNESS, AC (OUT)

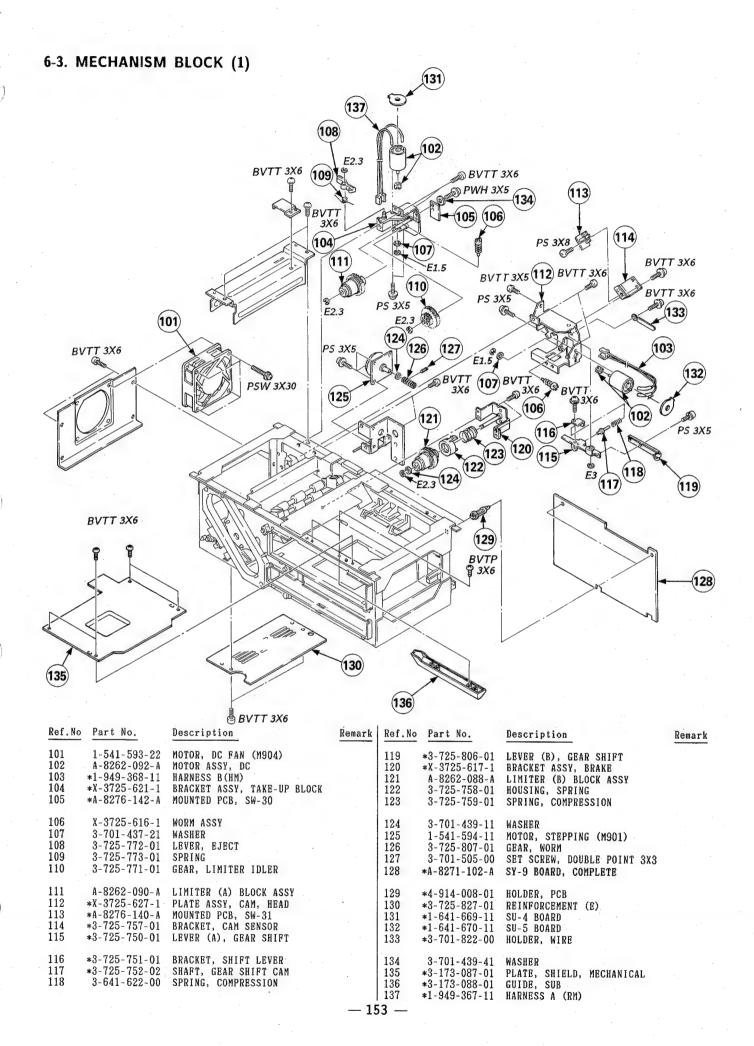
specified.

Les composants identifies par une trame et une marque A

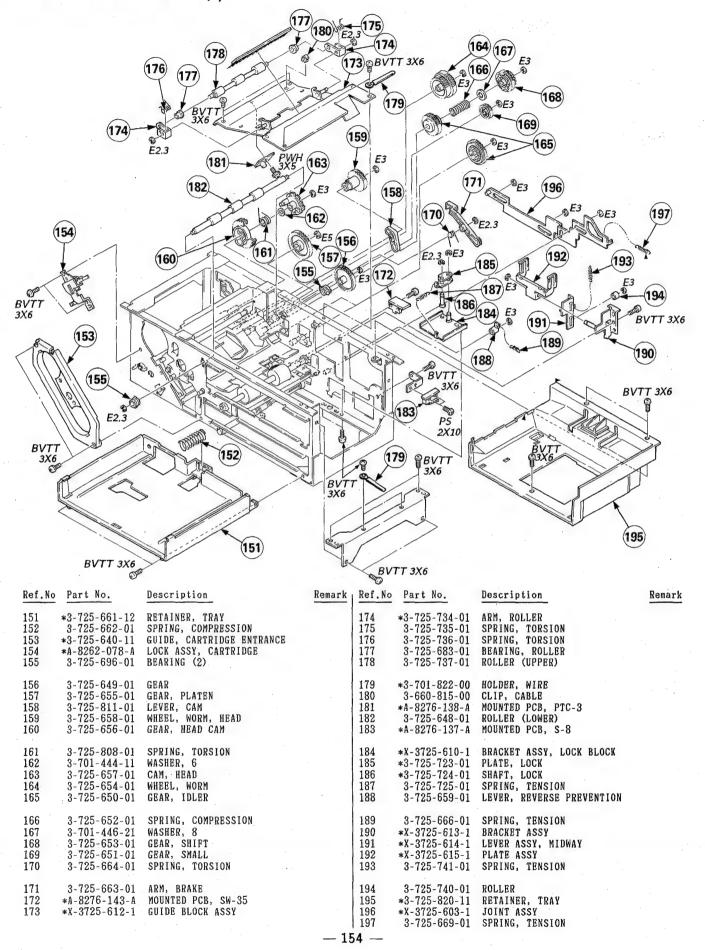
sont critiques pour la securite.

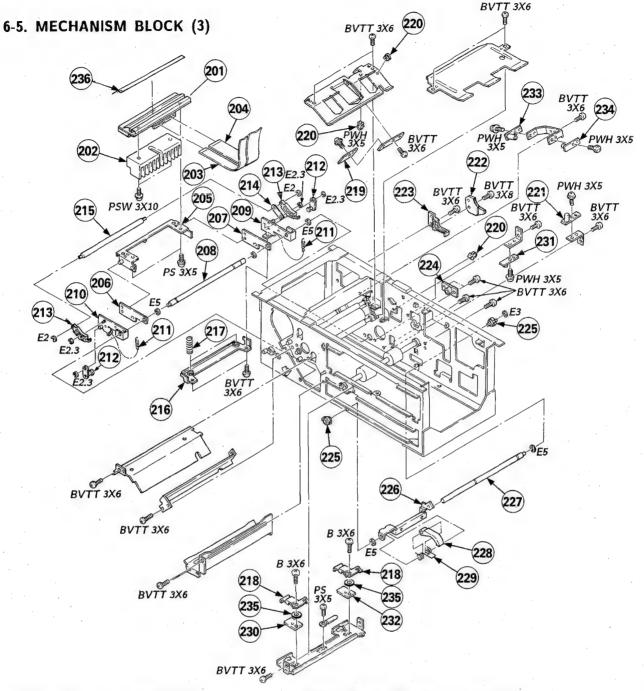
Ne les remplacer que par une

piece portant le numero specifie.



6-4. MEHCANISM BLOCK (2)

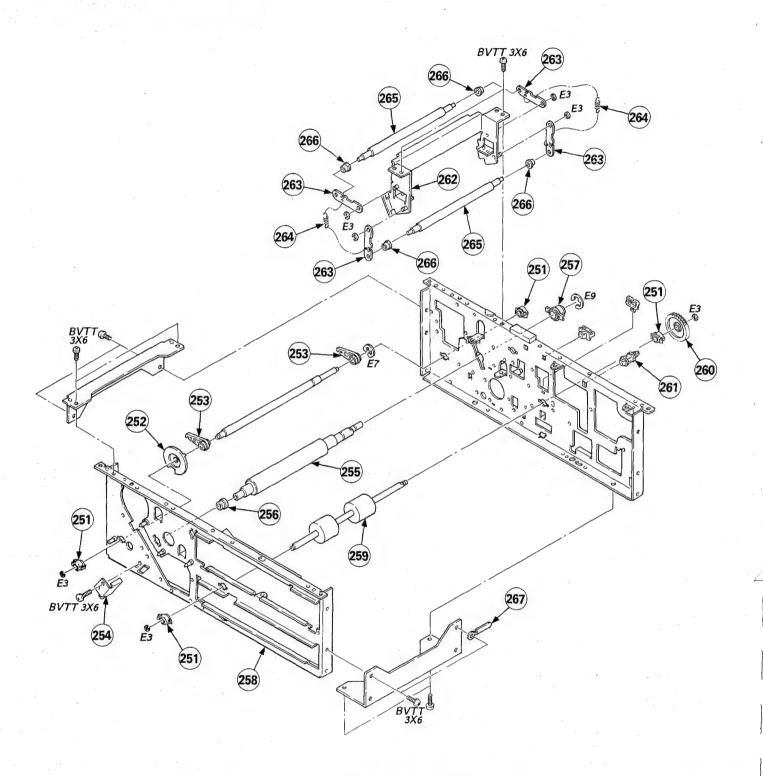




		Open control of the c			
Ref.No	Part No.	<u>Description</u> Remark	Ref.No	Part No.	Description
201 202 203 204 205	1-543-881-11 *3-725-812-01 *1-690-502-11 *1-559-969-11 *X-3725-605-1	HEAD, THERMAL (TH55212) FIN, HEAD WIRE, FLAT TYPE (10 CORE) WIRE, FLAT TYPE (16 CORE) STAY ASSY, HEAD	220 221 222 223 224	3-660-815-00 *A-8276-131-A *A-8276-134-A 3-725-718-01 3-725-660-01	
206 207 208 209 210	*3-725-692-01 *3-725-693-01 *3-725-694-01 *X-3725-606-1 *X-3725-608-1	ARM (A) (RIGHT), HEAD ARM (A) (LEFT), HEAD SHAFT, HEAD ARM ARM (B) (LEFT) BLOCK ASSY, HEAD ARM (B) (RIGHT) BLOCK ASSY, HEAD	225 226 227 228 229	3-725-696-01 *X-3725-609-1 *3-725-709-01 3-725-710-02 3-725-711-01	
211 212 213 214 215	*X-3725-607-1	ARM, RIBBON ROLLER BRACKET, ROLLER GROUND	230 231 232 233 234	*A-8276-135-A *A-8276-130-A *A-8276-136-A *A-8276-133-A *A-8276-132-A	MOUNTED PCB, SW-36 MOUNTED PCB, PTC-26 MOUNTED PCB, SW-37 MOUNTED PCB, PTC-23 MOUNTED PCB, PTC-24
216 217 218 219	*3-725-691-01 3-725-695-01 *3-725-720-01 *A-8276-129-A	MOUNTED PCB, PTC-4	235 236	3-701-439-41 3-174-628-01	WASHER COVER, HEAD

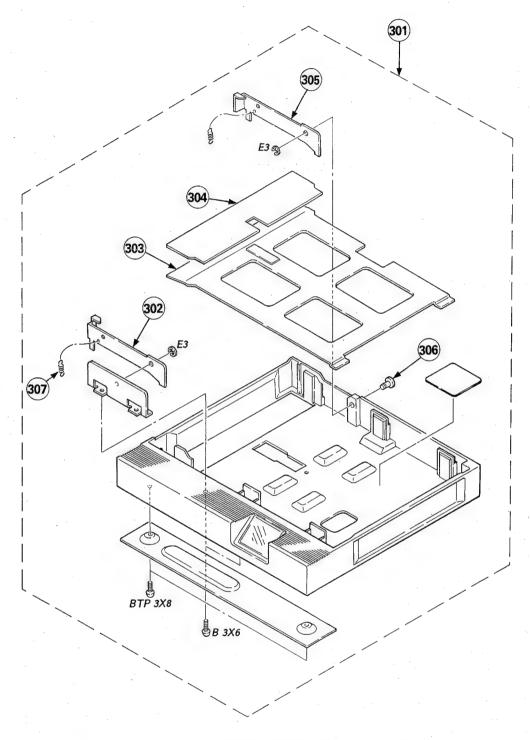
Remark

6-6. MECHANISM BLOCK (4)

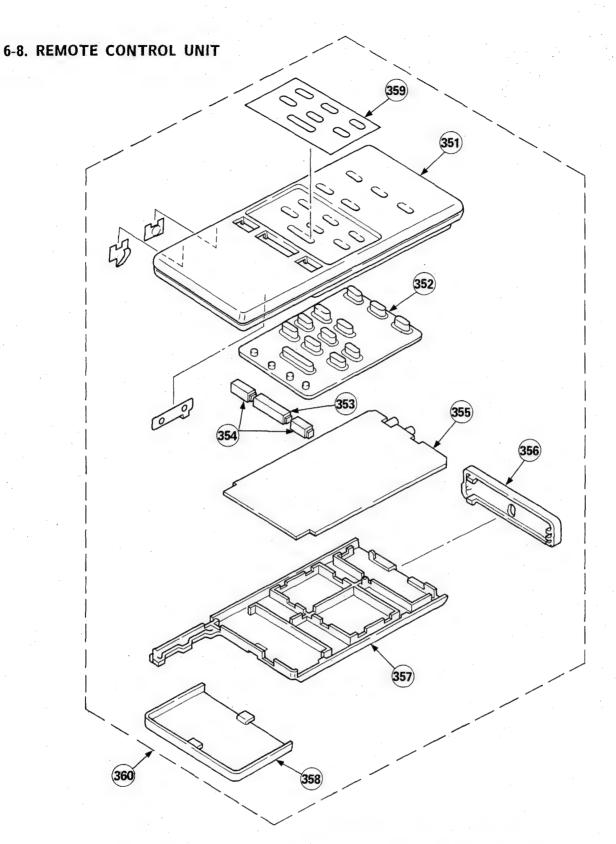


Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
251 252 253 254 255	3-725-696-01 3-725-689-01 3-725-688-01 *3-725-668-01 3-725-646-01	BEARING (2) STOPPER, EJECT ARM (A), HEAD U/D STOPPER, HEAD PLATEN		260 261 262 263 264	3-725-698-01 *4-332-236-00 *X-3725-604-1 *3-725-682-01 *3-437-282-00	GEAR SUPPORT, HEAT SINK BRACKET ASSY, PINCH ROLL ARM, PINCH ROLLER SPRING, COMPRESSION	ER ARM
256 257 258 259	3-725-823-01 3-725-697-01 *X-3725-629-3 3-725-647-01	BEARING (3) BEARING (1) CHASSIS (FRONT) ASSY, MECHANICA ROLLER	L	265 266 267	*3-725-684-01 3-172-911-01 *3-701-822-00	PINCH ROLLER BEARING (M), ROLLER HOLDER, WIRE	

6-7. TRAY ASSEMBLY



Ref. No	Part No.	Description		Remark	Ref. No	Part No.	Description	Remark
301 302 303	A-8261-250-A *3-725-787-01 *3-725-785-01		Incl.	302-307	306 307	*3-725-788-01 *3-725-791-01	SHAFT (2) SPRING, TENSION	
304 305	*3-725-790-01 *3-725-786-01	SHEET, LEATHER CLAW (RIGHT)					•	



Ref. No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
351 352 353 354 355	9-901-744-01 9-901-745-01 2-290-632-00 2-290-633-00 9-997-457-01	SHEET, RUBBER BUTTON, PUSH (L) BUTTON, PUSH (R)		356 357 358 359 360		CASE, BOTTOM COVER, BATTERY LABEL, MODEL NUMBER	

SECTION 7 ELECTRICAL PARTS LIST

VA-26

NOTE:

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The components identified by shading and mark \triangle are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

• MF : μF, PF : μμF

• MMH : IπH, UH : μH

RESISTORS

- · All resistors are in ohms
- F : nonflammable

Ref	.No Part No.	Description	Ren	mark Ref.No	Part No.	Description		Remark
		VA-26 BOARD, COMPLET						
A2 A3	*3-683-631-01 *3-683-631-01	CLAMP		C46 C47 C48 C49 C50	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		25 V 25 V 25 V 25 V 25 V
C1 C2 C3 C4 C5	1-124-234-00 1-163-097-00 1-163-235-11 1-163-251-11 1-163-089-00	CBRAMIC CHIP 15PF CBRAMIC CHIP 22PF CERAMIC CHIP 100PF	20% 16V 5% 50V 5% 50V 5% 50V 0.5PF 50V	C51 C53 C54 C55 C56	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		25V 25V 25V 25V 25V
C6 C7 C8 C9 C10	1-163-237-11 1-126-096-11 1-163-085-00 1-163-037-11 1-163-037-11	BLECT 10MF CERAMIC CHIP 2PF CERAMIC CHIP 0.022MF		C57 C58 C59 C60 C61	1-163-038-00 1-163-038-00 1-124-589-11 1-124-589-11 1-163-038-00	ELECT 47MF	20% 20%	25V 25V 16V 16V 25V
C11 C12 C13 C14 C15	1-163-089-00 1-163-038-00 1-124-589-11	CERAMIC CHIP 6PF CERAMIC CHIP 0.1MF ELECT 47MF	0.25PF 50V 0.5PF 50V 25V 20% 16V 20% 16V	C62 C63 C64 C65 C66	1-163-037-11 1-126-301-11 1-163-038-00 1-163-038-00 1-164-232-11	ELECT 1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 20%	25V 50V 25V 25V 50V
C16 C17 C18 C19 C20	1-163-235-11 1-163-251-11 1-163-089-00	CERAMIC CHIP 22PF CERAMIC CHIP 100PF CERAMIC CHIP 6PF	5% 50V 5% 50V 5% 50V 0.5PF 50V 5% 50V	C67 C68 C69 C70 C71	1-126-301-11 1-164-232-11 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF	20% 10%	50V 50V 25V 25V 25V
C21 C22 C23 C24 C25	1-163-085-00 1-163-037-11 1-163-037-11	CERAMIC CHIP 2PF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF		C72 C73 C75 C101 C102	1-163-038-00 1-163-038-00 1-163-038-00 1-124-234-00 1-124-234-00		20% 20%	25V 25V 25V 16V 16V
C26 C27 C28 C29 C30	1-124-234-00 1-163-097-00 1-163-235-11	DELECT 22MF CERAMIC CHIP 15PF CERAMIC CHIP 22PF	0.5PF 50V 20% 16V 5% 50V 5% 50V 5% 50V	C103 C104 C105 C106 C107	1-124-234-00 1-124-234-00 1-124-234-00 1-124-234-00 1-163-038-00	ELECT 22MF ELECT 22MF ELECT 22MF ELECT 22MF CERAMIC CHIP 0.1MF	20% 20% 20% 20%	16V 16V 16V 16V 25V
C31 C32 C33 C34 C35	1-163-237-11 1-126-096-11 1-163-085-00	CERAMIC CHIP 27PF ELECT 10MF CERAMIC CHIP 2PF	0.5PF 50V 5% 50V 20% 25V 0.25PF 50V 10% 25V	C108 C109 C110 C111 C112	1-124-234-00 1-124-234-00 1-163-037-11 1-163-251-11 1-126-301-11		20% 20% 10% 5% 20%	16V 16V 25V 50V 50V
C36 C37 C38 C39 C40	1-163-085-00 1-163-089-00 1-163-038-00	CERAMIC CHIP 2PF CERAMIC CHIP 6PF CERAMIC CHIP 0.1MF	10% 25V 0.25PF 50V 0.5PF 50V 25V 20% 16V	C113 C114 C115 C116 C117	1-163-038-00 1-124-234-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	20%	25V 16V 25V 25V 25V
C41 C42 C43 C44 C45	1-163-038-00 1-163-037-11 1-163-037-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF	10% 25V	C201 C214 C215 C216 C217	1-124-234-00 1-163-038-00 1-126-163-11 1-163-227-11 1-163-251-11	CERAMIC CHIP 0.1MF ELECT 4.7MF CERAMIC CHIP 10PF CERAMIC CHIP 100PF	20% 20% 5% 5%	16V 25V 25V 50V 50V

VA-26

Ref.No	Part No.	Description		Remark	Ref.No	Part No.	Description		Remark
C218 C219 C220 C221 C222	1-126-157-11 1-163-038-00 1-126-157-11 1-163-038-00 1-130-491-00	ELECT 10MF CERAMIC CHIP 0.1MF ELECT 10MF CERAMIC CHIP 0.1MF MYLAR 0.047MF	20% 20% 5%	16V 25V 16V 25V 50V	C342 C343 C345 C346 C347	1-163-038-00 1-124-234-00 1-124-589-11 1-163-038-00 1-163-038-00	CBRAMIC CHIP 0.1MF ELECT 22MF ELECT 47MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	20% 20%	25V 16V 16V 25V 25V
C223 C224 C225 C226 C227	1-163-133-00 1-163-133-00 1-163-038-00 1-126-157-11 1-163-275-11	CERAMIC CHIP 470PF CERAMIC CHIP 470PF CERAMIC CHIP 0.1MF ELECT 10MF CERAMIC CHIP 0.001MF	5% 5% 20% 5%	50V 50V 25V 16V 50V	C348 C349 C350 C351 C352	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		25V 25V 25V 25V 25V
C228 C229 C230 C240 C241	1-126-157-11 1-163-038-00 1-163-227-11 1-163-038-00 1-163-038-00	ELECT 10MF CERAMIC CHIP 0.1MF CERAMIC CHIP 10PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	20%	16V 25V 50V 25V 25V	C353 C354 C355 C356 C357	1-124-234-00 1-163-038-00 1-124-234-00 1-124-234-00 1-124-234-00	BLECT 22MF CERAMIC CHIP 0.1MF BLECT 22MF BLECT 22MF BLECT 22MF	20% 20% 20% 20%	16V 25V 16V 16V 16V
C243 C244 C245 C246 C247	1-163-038-00 1-163-038-00 1-130-495-00 1-130-499-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF MYLAR 0.1MF MYLAR 0.22MF CERAMIC CHIP 0.1MF	5% 5%	25V 25V 50V 50V 25V	C360 C361 C362 C363 C364	1-124-589-11 1-163-038-00 1-124-234-00 1-163-038-00 1-163-038-00	BLECT 47MF CBRAMIC CHIP 0.1MF BLECT 22MF CBRAMIC CHIP 0.1MF CBRAMIC CHIP 0.1MF	20%	16V 25V 25V 16V 25V
C248 C302 C303 C304 C305	1-126-157-11 1-124-234-00 1-163-237-11 1-126-157-11 1-163-115-00	ELECT 10MF ELECT 22MF CBRANIC CHIP 27PF ELECT 10MF CBRAMIC CHIP 82PF	20% 20% 5% 20% 5%	16V 16V 50V 16V 50V	C365 C366 C367 C368 C369	1-124-234-00 1-163-038-00 1-163-038-00 1-124-234-00 1-163-038-00	ELECT 22MF CBRAMIC CHIP 0.1MF CBRAMIC CHIP 0.1MF BLECT 22MF CBRAMIC CHIP 0.1MF	20%	16V 16V 25V 25V 16V
C306 C307 C308 C309 C310	1-126-301-11 1-126-301-11 1-163-125-00 1-163-115-00 1-163-121-00	ELECT 1MF ELECT 1MF CERAMIC CHIP 220PF CERAMIC CHIP 82PF CERAMIC CHIP 150PF	20% 20% 5% 5% 5%	50V 50V 50V 50V 50V	C370 C371 C372 C373 C374	1-124-589-11 1-124-589-11 1-163-038-00 1-163-038-00 1-124-589-11	BLECT 47MF BLECT 47MF CBRAMIC CHIP 0.1MF CBRAMIC CHIP 0.1MF BLECT 47MF	20% 20% 20%	50V 25V 25V 16V 16V
C311 C312 C313 C314 C315	1-163-038-00 1-163-263-11 1-163-251-11 1-124-589-11 1-126-157-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 330PF CERAMIC CHIP 100PF ELECT 47MF ELECT 10MF	5% 5% 20% 20%	25V 50V 50V 16V 16V	C375 C376 C378 C379 C380	1-136-173-00 1-163-038-00 1-163-038-00 1-124-234-00 1-124-234-00	FILM 0.47MF CBRAMIC CHIP 0.1MF CBRAMIC CHIP 0.1MF ELECT 22MF ELECT 22MF	5% 20% 20%	16V 16V 16V 16V 25V
C316 C317 C318 C319 C320	1-163-038-00 1-163-037-11 1-163-037-11 1-124-589-11 1-124-234-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF ELECT 47MF ELECT 22MF	10% 10% 20% 20%	25V 25V 25V 16V 16V	C381 C382 C383 C384 C385	1-124-234-00 1-124-234-00 1-124-234-00 1-124-234-00 1-126-163-11	ELECT 22MF ELECT 22MF ELECT 22MF ELECT 22MF ELECT 4.7MF	20% 20% 20% 20% 20%	50V 25V 25V 25V 50V
C321 C322 C323 C324 C325	1-124-234-00 1-124-589-11 1-124-589-11 1-163-038-00 1-124-589-11	ELECT 22MF ELECT 47MF ELECT 47MF CERAMIC CHIP 0.1MF ELECT 47MF	20% 20% 20% 20%	16V 10V 16V 25V 16V	C386 C387 C388 C389 C390	1-130-491-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-099-00	MYLAR 0.047MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 18PF	5%	50V 25V 25V 25V 50V
C326 C327 C328 C329 C330	1-163-038-00 1-163-038-00 1-124-589-11 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 47MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	20%	25V 25V 16V 25V 25V	C391 C392 C393 C394 C395	1-163-235-11 1-163-037-11 1-163-037-11 1-163-038-00 1-126-301-11	CERAMIC CHIP 0.022MF	5% 10% 10% 20%	50V 50V 25V 25V 25V
C331 C333 C334 C335 C336	1-163-038-00 1-163-038-00 1-124-234-00 1-124-234-00 1-163-241-11	CBRAMIC CHIP 0.1MF CBRAMIC CHIP 0.1MF BLECT 22MF BLECT 22MF CBRAMIC CHIP 39PF	20% 20% 5%	25V 25V 16V 16V 50V	C396 C398 C399 C400 C401	1-126-301-11 1-163-235-11 1-163-038-00 1-163-038-00 1-163-038-00	BLECT 1MF CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	20% 5%	16V 25V 25V 25V 16V
C337 C338 C339 C340 C341	1-163-241-11 1-124-234-00 1-163-038-00 1-163-038-00 1-163-038-00	CBRAMIC CHIP 39PF ELECT 22MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	5% 20%	50V 16V 25V 25V 25V	C402 C501 C502 C503 C504	1-124-589-11 1-163-038-00 1-163-038-00 1-163-038-00 1-124-589-11	CERAMIC CHIP 0.1MF	20%	25V 16V 25V 25V 16V

Ref.No	Part No.	Description	R	emark	Ref.No	Part No.	Description		
C505 C506 C507 C508 C509	1-163-038-00 1-124-589-11 1-163-038-00 1-163-038-00 1-124-589-11	CERAMIC CHIP 0.1MF ELECT 47MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 47MF	20% 25 25 25 16 20% 16	V (C1042 C1043 C1044	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		25V 25V 25V 25V 25V
C510 C511 C512 C513 C514	1-124-589-11 1-163-038-00 1-163-038-00 1-124-589-11 1-124-589-11	ELECT 47MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 47MF ELECT 47MF	20% 20% 20%	(C1061 C1078 C1079 C1080 C1081	1-163-227-11 1-163-037-11 1-163-038-00 1-126-096-11 1-163-038-00	CERAMIC CHIP 10PF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.1MF ELECT 10MF CERAMIC CHIP 0.1MF	5% 10% 20%	50V 25V 25V 25V 25V
C515 C516 C517 C518 C519	1-163-038-00 1-163-038-00 1-124-120-11 1-124-120-11 1-163-038-00	CBRAMIC CHIP 0.1MF CBRAMIC CHIP 0.1MF ELECT 220MF ELECT 220MF CERAMIC CHIP 0.1MF	25 25 20% 16 20% 16 25 25	V (C1083 C1084 C1085	1-163-038-00 1-163-038-00 1-163-121-00 1-163-038-00 1-126-096-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 150PF CERAMIC CHIP 0.1MF ELECT 10MF	5% 20%	25V 25V 50V 25V 25V
C520 C521 C522 C523 C524	$\begin{array}{c} 112617611 \\ 116303800 \\ 112617611 \\ 112458911 \\ 116303800 \end{array}$	ELECT 220MF CERAMIC CHIP 0.1MF ELECT 220MF ELECT 47MF CERAMIC CHIP 0.1MF	20% 10° 25° 20% 10° 20% 16° 25°	V (C1088 C1089 C1090	1-163-137-00 1-163-038-00 1-126-096-11 1-136-173-00 1-163-038-00	CERAMIC CHIP 680PF CERAMIC CHIP 0.1MF BLECT 10MF FILM 0.47MF CERAMIC CHIP 0.1MF	5% 20% 5%	50V 25V 25V 50V 25V
C525 C526 C527 C528 C529	1-124-589-11 1-163-038-00 1-124-589-11 1-163-038-00 1-124-589-11	ELECT 47MF CERAMIC CHIP 0.1MF ELECT 47MF CERAMIC CHIP 0.1MF ELECT 47MF	20% 16° 25° 20% 16° 25° 20% 16°	V (C1093 C1094 C1095	1-163-275-11 1-163-125-00 1-163-251-11 1-163-251-11 1-163-105-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 220PF CERAMIC CHIP 100PF CERAMIC CHIP 100PF CERAMIC CHIP 33PF	5% 5% 5% 5%	50V 50V 50V 50V 50V
C530 C531 C532 C533 C536	1-163-038-00 1-124-589-11 1-163-038-00 1-124-589-11 1-163-038-00	CBRAMIC CHIP 0.1MF BLECT 47MF CBRAMIC CHIP 0.1MF BLECT 47MF CBRAMIC CHIP 0.1MF	25 20% 16 25 20% 16 25 25	V (C1098 C1099 C1100	1-163-038-00 1-124-589-11 1-130-483-00 1-163-275-11 1-163-275-11	CERAMIC CHIP 0.1MF ELECT 47MF MYLAR 0.01MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	20% 5% 5% 5%	25V 16V 50V 50V 50V
C601 C602 C603 C604 C605	1-124-234-00 1-126-157-11 1-163-038-00 1-126-157-11 1-163-038-00	ELECT 22MF ELECT 10MF CERAMIC CHIP 0.1MF ELECT 10MF CBRAMIC CHIP 0.1MF	20% 16 20% 16 25 20% 16 25 20% 25	V (C1103 C1104 C1105	1-163-038-00 1-163-038-00 1-163-037-11 1-163-037-11 1-163-235-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF CERAMIC CHIP 22PF	10% 10% 5%	25V 25V 25V 25V 25V
C606 C628 C636 C637 C1001	1-163-235-11 1-164-232-11 1-163-038-00 1-164-232-11 1-124-635-00	CERAMIC CHIP 22PF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.01MF BLBCT 220MF	5% 500 10% 500 25 10% 500 20% 6.3	V 0	C1108 C1109 C1110	1-163-235-11 1-163-038-00 1-124-589-11 1-163-109-00 1-163-275-11	CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF ELECT 47MF CERAMIC CHIP 47PF CERAMIC CHIP 0.001MF	5% 20% 5% 5%	50V 25V 16V 50V
C1002 C1003 C1004 C1005 C1006	1-124-455-00 1-163-038-00 1-163-038-00 1-124-635-00 1-124-455-00	ELECT 100MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 220MF ELECT 100MF	20% 167 257 257 20% 6.3 20% 168	V 0 V 0 3V 0	C1116 C1117 C1118	1-124-234-00	ELECT 220MF CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 0.1MF ELECT 220MF	20% 20% 20%	6.3V 25V 16V 25V 6.3V
C1007 C1008 C1009 C1010 C1011	1-163-038-00 1-163-038-00 1-124-635-00 1-124-455-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF BLECT 220MF BLECT 100MF CERAMIC CHIP 0.1MF	257 257 20% 6.3 20% 167 257	V 0	C1121 C1122 C1123	1-124-234-00 1-163-038-00 1-124-635-00	CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 0.1MF ELECT 220MF CERAMIC CHIP 0.1MF	20% 20%	25V 16V 25V 6.3V 25V
C1012 C1013 C1014 C1015 C1016	1-163-038-00 1-163-038-00 1-124-635-00 1-126-096-11 1-163-235-11	CERAMIC CHIP 0.1MF CBRAMIC CHIP 0.1MF ELECT 220MF ELECT 10MF CERAMIC CHIP 22PF	25V 25V 20% 6.3 20% 25V 5% 50V	V 0	21126 21127 21128	1-124-635-00 1-163-038-00	ELECT 22MF CBRAMIC CHIP 0.1MF ELECT 220MF CBRAMIC CHIP 0.1MF ELECT 22MF	20% 20% 20%	16V 25V 6.3V 25V 16V
C1023 C1025 C1031	1-163-038-00 1-126-096-11 1-126-177-11 1-126-177-11 1-126-096-11	CERAMIC CHIP 0.1MF BLECT 10MF BLECT 100MF BLECT 100MF BLECT 10MF	25V 20% 25V 20% 6.3 20% 6.3 20% 25V	V C 3V C	01131 01132 01134	1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 22MF	20%	25V 25V 25V 25V 25V 16V

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	Ref.No	Part No.	Description		Remark	Ref.No	Part No.	Description	Remark
	C1136 C1137 C1138 C1139 C1140	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		25V 25V 25V 25V 25V	D302 D501 D502	8-719-105-83 8-719-800-76 8-719-800-76 8-719-800-09	DIODE RD5.1M-B3 DIODE 1SS226 DIODE 1SS226 DIODE 1SV101	
÷	C1140 C1141 C1142 C1143 C1144	1-163-038-00 1-163-038-00 1-126-096-11 1-126-096-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 10MF 207 ELECT 10MF 207		25V 25V 25V 25V 25V	D1002 D1003 D1004 D1005	8-719-105-58 8-719-105-73 8-719-104-34	DIODE RD3.9M-B2 DIODE RD4.7M-B2 DIODE 152836 <delay line=""></delay>	,
	C1145 C1146 C1147 C1148 C1149	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF		25V 25V 25V 25V 25V	DL301 DL302 DL303 DL1001	1-415-107-31 1-415-306-00 1-415-321-00 1-415-448-21	DELAY LINE (1H) DELAY LINE (340NS) DELAY LINE (500N SEC) DELAY LINE	
	C1150	1-124-234-00	ELECT 22MF 20%	4	16V			<filter></filter>	
	C1151 C1152 C1153 C1154	1-163-038-00 1-163-038-00 1-163-038-00 1-124-589-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 47MF 207		25V 25V 25V 16V	FL1001		FILTER, BAND PASS	
	C1155	1-124-589-11	ELECT 47MF 202		16V	IC2 IC3	8-759-908-17 8-759-908-17	IC TLO82CPS	
	C1156 C1157 C1158 C1159		CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF BLECT 47MF 20% CERAMIC CHIP 0.1MF	7	25V 25V 16V 25V	1C4 1C5 1C6	8-759-300-71 8-759-300-71 8-759-300-71	IC HD14053BFP IC HD14053BFP IC HD14053BFP	
			<connector></connector>			IC7 IC101	8-759-300-71 8-759-908-17	IC HD14053BFP IC TL082CPS	
	CN5	*1-568-935-11	PIN, CONNECTOR (STRAIGHT) PIN, CONNECTOR 8P	8P		IC102 IC201 IC203	8-759-206-28 8-759-300-71 8-759-907-81	IC MC74HC123AF IC HD14053BFP IC SN74LS221NS	
	CN301		PIN, CONNECTOR 8P PIN, CONNECTOR 4P PIN, CONNECTOR 2P			IC204 IC206 IC207	8-759-925-90 8-759-009-51 8-759-916-25	IC SN74HC74ANS IC MC14538BF IC SN74HC32ANS	
	CN502	*1-568-935-11 *1-506-468-11 *1-568-936-11	PIN, CONNECTOR 8P PIN, CONNECTOR 3P PIN, CONNECTOR 9P			1C208 1C209	8-759-300-71 8-759-201-47	IC HD14053BFP IC TA7357AP	• .
	CN504	*1-506-350-11 *1-506-469-11 *1-568-954-11	PIN, CONNECTOR 4P PIN, CONNECTOR 5P			IC301 IC302 IC303	8-759-300-71 8-759-300-71 8-759-908-17	IC HD14053BFP IC HD14053BFP IC TL082CPS	•
	CN1003	*1-506-469-11 *1-568-954-11 *1-568-934-11	PIN, CONNECTOR (STRAIGHT) PIN, CONNECTOR 5P PIN, CONNECTOR 7P	4P		10304 10305	8-759-908-17 8-759-300-71	IC TLO82CPS IC HD14053BFP	
	CN1005	*1-568-935-11 *1-568-951-11	PIN, CONNECTOR 8P PIN, CONNECTOR 2P			10306 10307 10308	8-759-300-71 8-759-300-71 8-759-300-71	IC HD14053BFP IC HD14053BFP IC HD14053BFP	
	CN1007	*1-506-469-11	PIN, CONNECTOR 4P <trimmer></trimmer>			10309 10315	8-759-982-21	IC RC78L05A IC CXA1228S	
		1-141-245-00 1-141-260-00	TRIMMER, CERAMIC TRIMMER, CERAMIC			1C501 1C502 1C503	8-759-927-46 8-759-927-46 8-759-982-10	IC SN74HC00ANS IC SN74HC00ANS IC RC7809FA	
			<diode></diode>			1C504 1C505	8-759-982-39 8-759-982-38	IC RC7909FA IC RC7905FA	
	D4 D5 D6 D7 D8	8-719-400-18 8-719-104-34 8-719-400-18 8-719-400-76	DIODE MA152WK DIODE 1S2836 DIODE MA152WK DIODE MA152WK DIODE 1SS226			10506 10507 10508 10701 10702	8-759-982-10 8-759-982-39 8-759-981-99 8-759-981-99	IC RC7809FA IC RC7909FA IC RC7905FA IC RC4560M IC RC4560M	
	D9 D10 D11 D12 D101	8-719-800-76 8-719-800-76 8-719-104-34 8-719-104-34 8-719-800-76	DIODE 1SS226 DIODE 1SS226 DIODE 1S2836 DIODE 1S2836 DIODE 1SS226					IC TC74HC86AF IC CXD1217M IC SN74HC00ANS IC V7040 IC UPD6451AGT-616	e e ea
	D201 D301	8-719-104-34 8-719-800-76	DIODE 182836 DIODE 188226			IC1022 IC1023	8-759-927-46 8-759-926-23	IC SN74HC00ANS IC SN74HC163ANS	

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Ref.No	Part No.	Description		Remark	Ref.No	Part No.	Description	
IC1024 IC1025 IC1026	8-759-926-23 8-759-926-23 8-749-901-21				LV301 LV1004	1-407-571-00 1-407-563-00	COIL, VARIABLE 22UH COIL, VARIABLE 1UH	
IC1027 IC1029 IC1030 IC1031 IC1032					Q1 Q2 Q3 Q4	8-729-100-66 8-729-100-66 8-729-100-66 8-729-216-22	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SA1162	
IC1033 IC1034 IC1142	8-759-925-81 8-759-982-21 8-759-908-17	IC SN74HC20ANS IC RC78L05A IC TL082CPS			96 97	8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623	
	<induc< td=""><td>TOR></td><td></td><td></td><td>99</td><td>8-729-122-63</td><td>TRANSISTOR 2SA1226</td><td></td></induc<>	TOR>			99	8-729-122-63	TRANSISTOR 2SA1226	
L1 L2 L3 L4 L5	1-408-970-21 1-408-970-21 1-408-970-21 1-408-968-21 1-408-969-21	INDUCTOR INDUCTOR			911 912 913 914	8-729-200-87 8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC2714-Y TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623	
L6 L7 L8 L9 L101 L102 L203	1-408-968-21 1-408-969-21 1-408-968-21 1-408-969-21 1-408-970-21 1-408-970-21 1-408-973-21	INDUCTOR	6.8UH 8.2UH 6.8UH 8.2UH 10UH 10UH 18UH		Q16 Q17 Q18 Q19 Q20	8-729-202-38 8-729-100-66 8-729-100-66 8-729-100-66 8-729-122-63	TRANSISTOR 2SC3326N TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SA1226	
L204 L205 L301	1-408-970-21 1-408-970-21 1-408-970-21	INDUCTOR INDUCTOR INDUCTOR	10UH 10UH 10UH		Q21 Q22 Q23 Q24	8-729-200-87 8-729-200-87 8-729-100-66 8-729-100-66	TRANSISTOR 2SC2714-Y TRANSISTOR 2SC2714-Y TRANSISTOR 2SC1623 TRANSISTOR 2SC1623	
L302 L303 L304 L305 L306	1-408-970-21 1-408-973-21 1-408-973-21 1-408-972-21 1-408-972-21	INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	10UH 18UH 18UH 15UH 15UH		925 926 927 928	8-729-100-66 8-729-216-22 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SA1162 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623	
L308 L310 L315 L316 L317	1-408-973-21 1-408-970-21 1-408-970-21 1-408-970-21 1-408-970-21	INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	18VH 10VH 10VH 10VH 10VH		930 931 932 933	8-729-100-66 8-729-122-63 8-729-200-87 8-729-200-87 8-729-216-22	TRANSISTOR 2SC1623 TRANSISTOR 2SA1226 TRANSISTOR 2SC2714-Y TRANSISTOR 2SC2714-Y TRANSISTOR 2SA1162	
L318 L319 L320	1-408-970-21 1-408-976-21 1-408-978-21 1-412-525-21	INDUCTOR	47UH		935 936 937	8-729-216-22 8-729-216-22 8-729-216-22 8-729-100-66	TRANSISTOR 2SA1162 TRANSISTOR 2SA1162 TRANSISTOR 2SA1162 TRANSISTOR 2SC1623	-
L502	1-412-525-21				039	8-729-100-66	TRANSISTOR 2SC1623	
L503 L504 L601 L602	1-412-525-21 1-412-525-21 1-408-970-21 1-408-970-21	INDUCTOR INDUCTOR INDUCTOR INDUCTOR	10UH 10UH 10UH 10UH		0101 0102 0103	8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623	
L610	1-408-969-21	INDUCTOR	8.2UH		Q104 Q201	8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623	
L1004 L1005 L1006 L1007	1-407-169-XX 1-408-970-21- 1-407-169-XX 1-408-958-21	INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	100UH 10UH 100UH 1UH 33UH		9202 9203 9204	8-729-100-66 8-729-216-22 8-729-216-22	TRANSISTOR 2SC1623 TRANSISTOR 2SA1162 TRANSISTOR 2SA1162	
L1010 L1011	1-408-970-21 1-408-977-21	INDUCTOR INDUCTOR	10UH 39UH		Q304 Q305	8-729-100-66 8-729-216-22	TRANSISTOR 2SC1623 TRANSISTOR 2SA1162	
L1013 L1014	1-408-970-21 1-408-970-21	INDUCTOR INDUCTOR	10UH 10UH		Q307 Q308 Q309	8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623	
L1015 L1016 L1017	1-407-169-XX 1-408-970-21 1-408-970-21	INDUCTOR INDUCTOR INDUCTOR	100UH 10UH 10UH		Q310	8-729-100-66	TRANSISTOR 2SC1623	
	L1 L2 L3 L4 L5 L6 L7 L8 L9 L101 L102 L203 L204 L305 L306 L308 L310 L315 L316 L317 L318 L319 L315 L316 L317 L318 L319 L501 L502 L503 L504 L601 L602 L610 L1005 L1006 L1007 L1010 L1011 L1012 L1013 L1014 L1015 L1016 L1015 L1016	IC1024	CIO1024	C1024	ICI 1	IC1024	ICI024	

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Ref. No	Part No.	Description	Remark	Ref.No	Part No.	Description		Remark
Q311 Q312 Q313 Q314 Q315	8-729-216-22 8-729-100-66 8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SA1162 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623		Q1015 Q1016 Q1017 Q1018 Q1019	8-729-100-66 8-729-100-66 8-729-100-66 8-729-100-66 8-729-100-66		623 623 623	
9316 9318 9319 9320 9321	8-729-100-66 8-729-202-38 8-729-202-38 8-729-202-38 8-729-216-22	TRANSISTOR 2SC1623 TRANSISTOR 2SC3326N TRANSISTOR 2SC3326N TRANSISTOR 2SC3326N TRANSISTOR 2SA1162		Q1028 Q1029 Q1034 Q1035 Q1036	8-729-100-66 8-729-100-66 8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1 TRANSISTOR 2SC1 TRANSISTOR 2SC1 TRANSISTOR 2SC1 TRANSISTOR 2SC1	623 623 623	
Q322 Q323 Q324 Q325 Q326	8-729-216-22 8-729-100-66 8-729-100-66 8-729-216-22 8-729-100-66	TRANSISTOR 2SA1162 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SA1162 TRANSISTOR 2SC1623		Q1037 Q1038 Q1039 Q1040 Q1041	8-729-100-66 8-729-100-66 8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC10 TRANSISTOR 2SC10 TRANSISTOR 2SC10 TRANSISTOR 2SC10 TRANSISTOR 2SC10	623 623 623	
Q327 Q328 Q329 Q330 Q331	8-729-100-66 8-729-100-66 8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623		Q1042 Q1043 Q1044 Q1045	8-729-175-72 8-729-175-72 8-729-100-66 8-729-100-66	TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC1 TRANSISTOR 2SC1	757- T33 623	
Q332 Q333	8-729-216-22 8-729-100-66	TRANSISTOR 2SA1162 TRANSISTOR 2SC1623				<resistor></resistor>		
9334 9335 9338	8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623		R1 R2 R3 R4	1-216-089-00 1-216-049-00 1-216-037-00 1-216-043-00		5% 0 5%	1/10W 1/10W 1/10W 1/10W
9339 9340	8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623		R5	1-216-039-00	METAL GLAZE 39		1/10W
9345 9346 9347	8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623		R6 R7 R8 R9	1-216-081-00 1-216-081-00 1-216-049-00 1-216-037-00	METAL GLAZE 221 METAL GLAZE 1K METAL GLAZE 330	K 5% 5%	1/10W 1/10W 1/10W 1/10W
Q348 Q349	8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623		R10	1-216-037-00	METAL GLAZE 33	0 5%	1/10W
Q350 Q351 Q353	8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623		R11 R12 R13 R14	1-216-049-00 1-216-049-00 1-216-049-00 1-216-025-00	METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 10	5% 5%	1/10W 1/10W 1/10W 1/10W
Q354 Q355	8-729-100-66 8-729-216-22	TRANSISTOR 2SC1623 TRANSISTOR 2SA1162		R15	1-216-057-00	METAL GLAZE 2.	2K 5%	1/10W
9356 9357 9358	8-729-202-38 8-729-216-22 8-729-202-38	TRANSISTOR 2SC3326N TRANSISTOR 2SA1162 TRANSISTOR 2SC3326N		R16 R17 R18 R19	1-216-071-00 1-216-051-00 1-216-037-00 1-216-065-00	METAL GLAZE 1.	2K 5% 0 5%	1/10W 1/10W 1/10W 1/10W
9359 9360	8-729-216-22 8-729-202-38	TRANSISTOR 2SA1162 TRANSISTOR 2SC3326N		R20	1-216-065-00	METAL GLAZE 4.	7K 5%	1/10W
0363 0364 0365	8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623		R21 R22 R23 R24	1-216-045-00 1-216-001-00 1-216-017-00 1-216-053-00	METAL GLAZE 10 METAL GLAZE 47 METAL GLAZE 1.	5% 5%	1/10W 1/10W 1/10W 1/10W
9366 9367	8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623		R25	1-216-308-00	METAL GLAZE 4.	7 5%	1/10W
9601 9602 9603	8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623		R26 R27 R28 R29	1-216-049-00 1-216-089-00 1-216-049-00 1-216-037-00	METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 330	K 5% 5%	1/10W 1/10W 1/10W 1/10W
Q1001 Q1002	8-769-401-89 8-729-100-66	TRANSISTOR TX-429M TRANSISTOR 2SC1623		R30	1-216-043-00	METAL GLAZE 560	0 5%	1/10W
01003 01004 01005	8-729-100-66 8-769-401-89 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR TX-429M TRANSISTOR 2SC1623		R31 R32 R33 R34	1-216-039-00 1-216-081-00 1-216-081-00 1-216-037-00	METAL GLAZE 390 METAL GLAZE 221 METAL GLAZE 221 METAL GLAZE 330	K 5% K 5%	1/10W 1/10W 1/10W 1/10W
91006 91007	8-729-100-66 8-769-401-89	TRANSISTOR 2SC1623 TRANSISTOR TX-429M		R35	1-216-049-00	METAL GLAZE 1K	5%	1/10W
Q1008 Q1009 Q1010	8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623		R36 R37 R38 R39	1-216-037-00 1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 1K	5% 5%	1/10W 1/10W 1/10W 1/10W

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Ref.No	Part No.	Description			Remark	Ref.No	Part No.	Description			Remark	
R40	1-216-025-00	METAL GLAZE	100	5%	1/10W	R105	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R41 R42 R43 R44 R45	1-216-057-00 1-216-071-00 1-216-051-00 1-216-037-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 8.2K 1.2K 330 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R106 R107 R108 R109 R110	1-216-081-00 1-216-049-00 1-216-017-00 1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 1K 47 22K 22K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R46 R47 R48 R49 R50	1-216-065-00 1-216-045-00 1-216-001-00 1-216-017-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 680 10 47 1.5K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R111 R112 R113 R114 R115	1-216-049-00 1-216-017-00 1-216-073-00 1-216-049-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 47 10K 1K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R51 R52 R53 R54 R55	1-216-308-00 1-216-049-00 1-216-089-00 1-216-049-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7 1K 47K 1K 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R116 R117 R118 R119 R120	1-216-049-00 1-216-065-00 1-216-027-00 1-216-057-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 4.7K 120 2.2K 47K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R56 R57 R58 R59 R60	1-216-043-00 1-216-039-00 1-216-081-00 1-216-081-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 390 22K 22K 330	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R121 R129 R130 R131 R132	1-216-073-00 1-216-089-00 1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 47K 100 100	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R61 R62 R63 R64 R65	1-216-049-00 1-216-037-00 1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 K 330 1 K 1 K 1 K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R210 R211 R212 R213 R214	1-216-023-00 1-216-089-00 1-216-049-00 1-216-031-00 1-216-035-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 47K 1K 180 270 330	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R66 R67 R68 R69 R70	1-216-025-00 1-216-057-00 1-216-071-00 1-216-051-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 2.2K 8.2K 1.2K 330	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R215 R216 R217 R218 R219	1-216-043-00 1-216-035-00 1-216-097-00 1-216-101-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 270 100K 150K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R71 R72 R73 R74 R75	1-216-065-00 1-216-065-00 1-216-045-00 1-216-001-00 1-216-017-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 680 10 47	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R220 R221 R222 R223 R224	1-216-073-00 1-216-113-00 1-216-095-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	12K 470K 82K 1K 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
R76 R77 R78 R79 R81	1-216-053-00 1-216-308-00 1-216-049-00 1-216-049-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 4.7 1K 1K 6.8K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R225 R226 R227 R228 R229	1-216-065-00 1-216-067-00 1-216-073-00 1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5.6K 10K 10K 2.2K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R82 R83 R85 R86 R87	1-216-057-00 1-216-073-00 1-216-009-00 1-216-069-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 10K 22 6.8K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R230 R232 R233 R234 R235	1-216-073-00 1-216-055-00 1-216-093-00 1-216-081-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 1.8K 68K 22K 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R88 R89 R90 R91 R92	1-216-073-00 1-216-009-00 1-216-069-00 1-216-057-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 22 6.8K 2.2K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R236 R237 R238 R239 R301	1-216-101-00 1-216-041-00 1-216-101-00 1-216-071-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150K 470 150K 8.2K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R93 R94 R95 R96 R100	1-216-009-00 1-216-057-00 1-216-057-00 1-216-057-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22 2.2K 2.2K 2.2K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R302 R303 R304 R305 R306	1-216-081-00 1-216-049-00 1-216-025-00 1-216-089-00 1-216-031-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 1K 100 47K 180	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R101 R102 R103 R104	1-216-081-00 1-216-081-00 1-216-049-00 1-216-017-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 1K 47	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	R307 R308 R309	1-216-025-00 1-216-049-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 1K 560	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	

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Ref. No	Part No.	Description			Remark	Ref. No	Part No.	Description			Remark
R310 R311	1-216-037-00 1-216-049-00	METAL GLAZE METAL GLAZE	330 1 K	5% 5%	1/10W 1/10W	R399 R400	1-216-057-00 1-216-643-11	METAL GLAZE METAL CHIP	2.2K 470	5% 0.50%	1/10W 1/10W
R312 R313 R314 R315 R316	1-216-093-00 1-216-089-00 1-216-041-00 1-216-041-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	68K 47K 470 470 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R401 R402 R403 R404 R405	1-216-657-11 1-216-620-11 1-216-671-11 1-216-665-11 1-216-628-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	1.8K 51 6.8K 3.9K 110	0.50% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W
R317 R318 R319 R320 R321	1-216-057-00 1-216-045-00 1-216-033-00 1-216-021-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 680 220 68 220	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R406 R407 R408 R409 R410	1-216-055-00 1-216-069-00 1-216-025-00 1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 6.8K 100 1K 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R322 R323 R324 R325 R326	1-216-045-00 1-216-037-00 1-216-045-00 1-216-045-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 330 680 680 680	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R411 R412 R413 R414 R415	1-216-055-00 1-216-025-00 1-216-059-00 1-216-025-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 100 2.7K 100 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R327 R328 R329 R330 R331	1-216-045-00 1-216-041-00 1-216-081-00 1-216-063-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 470 22K 3.9K 2.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R416 R417 R418 R419 R420	1-216-647-11 1-216-651-11 1-216-623-11 1-216-055-00 1-216-025-00	METAL CHIP METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE	680 1K 68 1.8K 100	0.50%	1/10W 1/10W 1/10W 1/10W 1/10W
R332 R333 R335 R336 R337	1-216-658-11 1-216-049-00 1-216-049-00 1-216-025-00 1-216-642-11	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	2K 1K 1K 100 430	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R421 R422 R423 R424 R439	1-216-025-00 1-216-061-00 1-216-065-00 1-216-025-00 1-216-111-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 3.3K 4.7K 100 390K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R338 R339 R340 R341 R345	1-216-045-00 1-216-037-00 1-216-049-00 1-216-049-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 330 1K 1K 3.3K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R440 R442 R443 R446 R447	1-216-103-00 1-216-067-00 1-216-049-00 1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	180K 5.6K 1K 22K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R346 R347 R348 R349 R350	1-216-041-00 1-216-049-00 1-216-051-00 1-216-089-00 1-216-091-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 1K 1.2K 47K 56K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R448 R449 R450 R451 R452	1-216-049-00 1-216-025-00 1-216-081-00 1-216-081-00 1-216-027-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 100 22K 22K 120	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R351 R352 R353 R354 R355	1-216-039-00 1-216-041-00 1-216-081-00 1-216-081-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R453 R454 R455 R456 R457	1-216-025-00 1-216-081-00 1-216-081-00 1-216-037-00 1-216-025-00	METAL GLAZE	100 22K 22K 330 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R356 R358 R359 R360 R363	1-216-025-00 1-216-089-00 1-216-091-00 1-216-045-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 47K 56K 680 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R458 R459 R460 R461 R462	1-216-081-00 1-216-063-00 1-216-055-00 1-216-097-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 3.9K 1.8K 100K 6.8K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R364 R387 R388 R389 R390	1-216-025-00 1-216-025-00 1-216-057-00 1-216-651-11 1-216-055-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP METAL GLAZE	100 100 2.2K 1K 1.8K	5% 5% 5% 0.50% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R465 R466 R467 R468 R469	1-216-077-00 1-216-081-00 1-216-081-00 1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 22K 22K 1K 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R391 R392 R393 R394 R395	1-216-630-11 1-216-649-11 1-216-061-00 1-216-025-00 1-216-025-00	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	130 820 3.3K 100 100		1/10W 1/10W 1/10W 1/10W 1/10W	R471 R474 R475 R476 R477	1-216-061-00 1-216-101-00 1-216-676-11 1-216-101-00 1-216-676-11	METAL GLAZE METAL GLAZE METAL CHIP METAL GLAZE METAL CHIP	3.3K 150K 11K 150K 11K	5% 5% 0.50% 5% 0.50%	1/10W
R396 R397 R398	1-216-065-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 100 100	5% 5% 5%	1/10W 1/10W 1/10W	R480 R481 R482	1-216-089-00 1-216-091-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 56K 2.2K	5% 5% 5%	1/10W 1/10W 1/10W

Ref.No	Part No.	Description			Remark	Ref.No	Part No.	Description			Remark
R483	1-216-025-00	METAL GLAZE	100	5%	1/10W	R743	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R484	1-216-101-00	METAL GLAZE	150K	5%	1/10W	R744	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R485 R486	1-216-059-00 1-216-049-00	METAL GLAZE METAL GLAZE	2.7K 1K	5% 5%	1/10W 1/10W	R745 R746	1-216-069-00 1-216-065-00	METAL GLAZE METAL GLAZE	6.8K 4.7K	5% 5%	1/10W 1/10W
R487 R488	1-216-049-00 1-216-049-00	METAL GLAZE	1 K 1 K	5% 5%	1/10W 1/10W	R747 R748	1-216-069-00 1-216-065-00	METAL GLAZE METAL GLAZE	6.8K 4.7K	5% 5%	1/10W 1/10W
R489	1-216-041-00	METAL GLAZE	470	5%	1/10₩	R749	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R490 R491	1-216-025-00 1-216-097-00	METAL GLAZE	100 100K	5% 5%	1/10W 1/10W	R750 R751	1-216-065-00 1-216-097-00	METAL GLAZE	4.7K 100K	5% 5%	1/10W 1/10W
R492 R493 R494	1-216-097-00 1-216-097-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 100K 100K	5% 5% 5%	1/10W 1/10W 1/10W	R752 R753	1-216-025-00 1-216-025-00	METAL GLAZE	100 100	5% 5%	1/10W 1/10W
R495	1-216-049-00	METAL GLAZE	160k	5%	1/10W	R754 R756	1-216-025-00 1-216-033-00	METAL GLAZE	100 220	5% 5%	1/10W 1/10W
R496 R497	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K	5% 5%	1/10W 1/10W	R801 R802	1-216-093-00 1-216-081-00	METAL GLAZE METAL GLAZE	68K 22K	5% 5%	1/10W 1/10W
R498 R499	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K	5% 5%	1/10W 1/10W	R803 R804	1-216-049-00 1-216-039-00	METAL GLAZE METAL GLAZE	1K 390		1/10W 1/10W
R505	1-215-932-	METAL OXIDE	22	5% 5W	•	R805	1-216-662-11	METAL CHIP	3K		1/10W
R507 R508	1-216-493- 1-216-081-00	METAL OXIDE METAL GLAZE	12 22K	5% 5W 5%	F 1/10W	R806 R807	1-216-053-00 1-216-049-00	METAL GLAZE METAL GLAZE	1.5K 1K	5% 5%	1/10W 1/10W
R509 R510	1-216-049-00 1-216-081-00	METAL GLAZE METAL GLAZE	1K 22K	5% 5%	1/10W 1/10W	R808 R809	1-216-041-00 1-216-041-00	METAL GLAZE METAL GLAZE	470 470	5% 5%	1/10W 1/10W
R511	1-216-049-00	METAL GLAZE	1 K	5%	1/10₩	R810	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R601 R602	1-216-083-00	METAL GLAZE	27K 10K	5% 5%	1/10W 1/10W	R811 R812	1-216-089-00 1-216-113-00	METAL GLAZE	47K 470K	5% 5%	1/10W 1/10W
R603 R604	1-216-049-00 1-216-061-00	METAL GLAZE	1K 3.3K	5% 5%	1/10W 1/10W	R813 R814	1-216-089-00 1-216-113-00	METAL GLAZE METAL GLAZE	47K 470K	5% 5%	1/10W 1/10W
R605 R606	1-216-057-00 1-216-049-00	METAL GLAZE METAL GLAZE	2.2K 1K	5% 5%	1/10W 1/10W	R815 R816	1-216-089-00 1-216-668-11	METAL GLAZE METAL CHIP	47K 5.1K	5%	1/10W 1/10W
R607 R646	1-216-057-00 1-216-039-00	METAL GLAZE METAL GLAZE	2.2K 390	5% 5%	1/10W 1/10W	R817 R818	1-216-057-00 1-216-666-11	METAL GLAZE METAL CHIP	2.2K 4.3K	5%	1/10W 1/10W
R647	1-216-039-00	METAL GLAZE	390	5%	1/10W	R819	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R648 R649	1-216-073-00 1-216-073-00	METAL GLAZE	10K 10K	5% 5%	1/10W 1/10W	R821 R822	1-216-057-00 1-216-043-00	METAL GLAZE METAL GLAZE	2.2K 560	5% 5%	1/10W 1/10W
R717 R718	1-216-097-00 1-216-089-00	METAL GLAZE METAL GLAZE	100K 47K	5% 5%	1/10W 1/10W	R823 R824	1-216-057-00 1-216-045-00	METAL GLAZE METAL GLAZE	2.2K 680	5% 5%	1/10W 1/10W
R719	1-216-097-00	METAL GLAZE	100K	5%	1/10W	R825	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R720 R721 R722	1-216-061-00 1-216-041-00 1-216-027-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 470 120	5% 5% 5%	1/10W 1/10W 1/10W	R826 R827	1-216-081-00 1-216-049-00	METAL GLAZE	22K 1K	5% 5%	1/10W 1/10W
R723 R724	1-216-049-00 1-216-065-00	METAL GLAZE	1 K	5%	1/10W 1/10W 1/10W	R828 R829 R830	1-216-025-00 1-216-097-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 100K	5% 5%	1/10W 1/10W
R725	1-216-097-00	METAL GLAZE	100K	5%	1/10W	R831	1-216-049-00	METAL GLAZE	1 K 1 K	5% 5%	1/10W 1/10W
R726 R727	1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE	10K 10K	5% 5%	1/10W 1/10W	R832 R833	1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K	5% 5%	1/10W 1/10W
R728 R729	1-216-085-00 1-216-025-00	METAL GLAZE METAL GLAZE	33K 100	5% 5%	1/10W 1/10W	R834 R835	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K	5% 5%	1/10W 1/10W
R730	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	R841	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R731 R732	1-216-069-00 1-216-083-00	METAL GLAZE	6.8K 27K	5% 5%	1/10W 1/10W	R842 R843	1-216-083-00 1-216-065-00	METAL GLAZE METAL GLAZE	27K 4.7K	5% 5%	1/10W 1/10W
R733 R734	1-216-101-00 1-216-105-00	METAL GLAZE METAL GLAZE	150K 220K	5% 5%	1/10W 1/10W	R844 R845	1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/10W 1/10W
R735 R736	1-216-694-11 1-216-073-00	METAL CHIP METAL GLAZE	62K 10K	0.50% 5%	1/10W 1/10W	R846	1-216-295-00	METAL GLAZE	0	5%	1/10₩
R737 R738	1-216-037-00 1-216-043-00	METAL GLAZE METAL GLAZE	330 560	5% 5%	1/10W 1/10W 1/10W	R847 R848 R849	1-216-295-00	METAL GLAZE	0	5% 5%	1/10W 1/10W
R739	1-216-097-00	METAL GLAZE	100K	5%	1/10₩	R850	1-216-295-00 1-216-019-00	METAL GLAZE METAL GLAZE	0 56	5% 5%	1/10W 1/10W
R740 R741	1-216-043-00 1-216-037-00	METAL GLAZE METAL GLAZE	560 330	5% 5%	1/10W 1/10W	R851 R852	1-216-019-00 1-216-025-00	METAL GLAZE METAL GLAZE	56 100	5% 5%	1/10W 1/10W
R742	1-216-101-00	METAL GLAZE	150K	5%	1/10W	R853	1-216-025-00	METAL GLAZE	100	5%	1/10W

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Ref.No	Part No.	Description			Remark	Ref.No	Part No.	Description			Remark
R854 R855	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	100 100	5% 5%	1/10W 1/10W	R1121 R1122	1-216-025-00 1-216-093-00	METAL GLAZE METAL GLAZE	100 68K	5% 5%	1/10W 1/10W
R856 R857 R858 R859 R1001	1-216-025-00 1-216-025-00 1-216-049-00 1-216-073-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 100 1K 10K 15K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1123 R1124 R1125 R1126 R1127	1-216-093-00 1-216-021-00 1-216-025-00 1-216-047-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	68K 68 100 820 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1002 R1003 R1004 R1005 R1006	1-216-057-00 1-216-055-00 1-216-043-00 1-216-045-00 1-216-121-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 1.8K 560 680 1M	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1128 R1129 R1130 R1132 R1133	1-216-037-00 1-216-077-00 1-216-077-00 1-216-023-00 1-216-069-00	METAL GLAZE	330 15K 15K 82 6.8K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1007 R1008 R1009 R1010 R1011	1-216-049-00 1-216-061-00 1-216-065-00 1-216-077-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 3.3K 4.7K 15K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1134 R1135 R1136 R1137 R1138	1-216-069-00 1-216-063-00 1-216-065-00 1-216-073-00 1-216-089-00		6.8K 3.9K 4.7K 10K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1012 R1013 R1014 R1015 R1016	1-216-055-00 1-216-043-00 1-216-045-00 1-216-121-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 560 680 1M 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1139 R1140 R1141 R1142 R1143	1-216-065-00 1-216-089-00 1-216-065-00 1-216-073-00 1-216-071-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 47K 4.7K 10K 8.2K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1017 R1018 R1019 R1020 R1021	$\begin{array}{c} 1-216-061-00 \\ 1-216-065-00 \\ 1-216-077-00 \\ 1-216-057-00 \\ 1-216-055-00 \end{array}$	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 4.7K 15K 2.2K 1.8K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1144 R1145 R1146 R1147 R1148	1-216-077-00 1-216-049-00 1-216-071-00 1-216-077-00 1-216-035-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 1K 8.2K 15K 270	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1022 R1023 R1024 R1025 R1026	$\begin{array}{c} 1 - 216 - 043 - 00 \\ 1 - 216 - 045 - 00 \\ 1 - 216 - 121 - 00 \\ 1 - 216 - 049 - 00 \\ 1 - 216 - 061 - 00 \end{array}$	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 680 1M 1K 3.3K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1149 R1150 R1151 R1154 R1155	1-216-067-00 1-216-069-00 1-216-061-00 1-216-057-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 6.8K 3.3K 2.2K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1027 R1028 R1029 R1030 R1031	1-216-065-00 1-216-017-00 1-216-097-00 1-216-073-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 47 100K 10K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1156 R1157 R1158 R1159 R1160	1-216-636-11 1-216-057-00 1-216-025-00 1-216-073-00 1-216-073-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	240 2.2K 100 10K 10K	0.50% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1032 R1033 R1035 R1040 R1046	$\begin{array}{c} 121607300 \\ 121607300 \\ 121607300 \\ 121604900 \\ 121604900 \end{array}$	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K 1K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1164 R1165 R1166 R1167 R1168	1-216-043-00 1-216-041-00 1-216-025-00 1-216-025-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 470 100 100 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1047 R1051 R1054 R1058 R1072	1-216-049-00 1-216-025-00 1-216-049-00 1-216-025-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 K 100 1 K 100 10 K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1169 R1170 R1171 R1172 R1173	1-216-061-00 1-216-041-00 1-216-043-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 470 560 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1073 R1074 R1075 R1076 R1077	$\begin{array}{c} 1\text{-}216\text{-}057\text{-}00 \\ 1\text{-}216\text{-}073\text{-}00 \\ 1\text{-}216\text{-}057\text{-}00 \\ 1\text{-}216\text{-}073\text{-}00 \\ 1\text{-}216\text{-}073\text{-}00 \\ 1\text{-}216\text{-}057\text{-}00 \end{array}$	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 10K 2.2K 10K 2.2K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1174 R1175 R1176 R1177 R1178	1-216-065-00 1-216-061-00 1-216-041-00 1-216-043-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 3.3K 470 560 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1084 R1085 R1113 R1116 R1117	$\begin{array}{c} 1\text{-}216\text{-}053\text{-}00 \\ 1\text{-}216\text{-}061\text{-}00 \\ 1\text{-}216\text{-}023\text{-}00 \\ 1\text{-}216\text{-}025\text{-}00 \\ 1\text{-}216\text{-}025\text{-}00 \end{array}$	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 3.3K 82 100 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R1179 R1180 R1181 R1182 R1183	1-216-061-00 1-216-025-00 1-216-065-00 1-216-041-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 100 4.7K 470 560	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1118 R1119 R1120	1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 100 100	5% 5% 5%	1/10W 1/10W 1/10W	R1184 R1185 R1186	1-216-025-00 1-216-061-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 3.3K 100	5% 5% 5%	1/10W 1/10W 1/10W

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Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description		Remark
R1187 R1188	1-216-065-00 1-216-648-11	METAL CHIP 750 0.50	1/10W % 1/10W	RV1011	1-228-989-00 1-228-989-00 1-228-989-00	RES, ADJ, METAL GLAZE RES, ADJ, METAL GLAZE RES, ADJ, METAL GLAZE	470	
R1189 R1190 R1192 R1193 R1194	1-216-073-00 1-216-073-00 1-216-097-00 1-216-097-00 1-216-069-00	METAL GLAZE 10K 5% METAL GLAZE 10K 5% METAL GLAZE 100K 5% METAL GLAZE 100K 5% METAL GLAZE 6.8K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	s301		<switch> SWITCH, SLIDE</switch>	410	
R1195 R1196 R1197 R1198 R1199	1-216-073-00 1-216-063-00 1-216-049-00 1-216-295-00 1-216-295-00	METAL GLAZE 10K 5% METAL GLAZE 3.9K 5% METAL GLAZE 1K 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	T1301	1-425-786-00	<transformer> TRANSFORMER, BANDPASS (<crystal></crystal></transformer>	(BPT)	
R1200 R1201 R1202 R1203 R1204	1-216-085-00 1-216-085-00 1-216-085-00 1-216-015-00 1-216-015-00	METAL GLAZE 33K 5% METAL GLAZE 33K 5% METAL GLAZE 33K 5% METAL GLAZE 39 5% METAL GLAZE 39 5%	1/10W 1/10W 1/10W 1/10W 1/10W	X301 X1001 ******		VIBRATOR, CRYSTAL VIBRATOR, CRYSTAL	******	*****
R2041	1-216-049-00	METAL GLAZE 1K 5%	1/10W		*A-8271-104-A *A-8271-105-A	FMY-8 BOARD, COMPLETE FMY-8 BOARD, COMPLETE	3 (5200MI 3 (5250MI	0)
	9	<variable resistor=""></variable>				*********		
RV1 RV2 RV3	1-228-993-00 1-228-990-00 1-228-993-00	RES, ADJ, METAL GLAZE 4. RES, ADJ, METAL GLAZE 1K RES, ADJ, METAL GLAZE 4.		C1	1-163-038-00	<pre><capacitor> CERAMIC CHIP 0.1MF</capacitor></pre>		25V
RV4 RV6	1-228-990-00 1-228-990-00	RES, ADJ, METAL GLAZE 18 RES, ADJ, METAL GLAZE 18		C2 C3 C4	1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		25V 25V 25V
RV7 RV8 RV9	1-228-991-00 1-228-991-00 1-228-991-00	RES, ADJ, METAL GLAZE 2. RES, ADJ, METAL GLAZE 2. RES, ADJ, METAL GLAZE 2.	2K	C5 C6	1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF		25V 25V
RV10 RV14	1-228-993-00 1-228-990-00	RES, ADJ, METAL GLAZE 4. RES, ADJ, METAL GLAZE 18	7 K	C7 C8 C9		CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		25V 25V 25V 25V
RV15 RV16 RV201	1-237-516-21 1-228-989-00 1-228-993-00	RES, ADJ, METAL FILM 2K RES, ADJ, METAL GLAZE 47 RES, ADJ, METAL GLAZE 4.		C10	1-163-038-00	CERAMIC CHIP 0.1MF		25V
RV203 RV204	1-228-993-00 1-228-995-00	RES, ADJ, METAL GLAZE 4. RES, ADJ, METAL GLAZE 22	7K .	C11 C12 C13 C14	1-163-227-11 1-163-241-11 1-163-109-00 1-163-109-00		5%	50V 50V 50V
RV302 RV303 RV304	1-228-989-00 1-228-989-00	RES, ADJ, METAL GLAZE 47	0	C15	1-163-109-00	CERAMIC CHIP 47PF	5%	50V
RV305 RV307	1-228-989-00 1-237-514-21 1-228-989-00	RES, ADJ, METAL GLAZE 47 RES, ADJ, METAL FILM 500 RES, ADJ, METAL GLAZE 47		C16 C17 C18 C19	1-163-105-00 1-163-105-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 33PF CERAMIC CHIP 33PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	5%	50V 50V 25V 25V
RV309	1-228-991-00	RES, ADJ, METAL GLAZE 47 RES, ADJ, METAL GLAZE 2.		C20	1-163-235-11	CERAMIC CHIP 22PF	5%	50V
RV311 RV312 RV313	1-228-994-00 1-237-514-21 1-228-991-00	RES, ADJ, METAL GLAZE 10 RES, ADJ, METAL FILM 500 RES, ADJ, METAL GLAZE 2.		C22 C23 C24	1-124-455-00 1-124-455-00 1-163-263-11	BLECT 100MF BLECT 100MF CERAMIC CHIP 330PF	20% 5%	16V 16V 50V
RV314 RV315	1-228-989-00 1-228-990-00	RES, ADJ, METAL GLAZE 47 RES, ADJ, METAL GLAZE 18		C25 C26	1-163-009-11 1-124-455-00	CERAMIC CHIP 0.001MF ELECT 100MF		50V 16V
RV316 RV317 RV318	1-228-991-00 1-228-995-00 1-228-989-00	RES, ADJ, METAL GLAZE 2. RES, ADJ, METAL GLAZE 22 RES, ADJ, METAL GLAZE 47	K	C27 C28 C29	1-163-038-00 1-124-455-00 1-163-038-00	CERAMIC CHIP 0.1MF ELECT 100MF CERAMIC CHIP 0.1MF	20%	25V 16V 25V
RV601 RV1001	1-228-989-00 1-228-991-00	RES, ADJ, METAL GLAZE 47 RES, ADJ, METAL GLAZE 2.		C30 C31	1-124-455-00 1-163-038-00	ELECT 100MF CERAMIC CHIP 0.1MF		16V 25V
RV1002 RV1003 RV1004	1-228-991-00 1-228-991-00 1-230-504-11	RES, ADJ, METAL GLAZE 2. RES, ADJ, METAL GLAZE 2. RES, ADJ, METAL GLAZE 22	2K 2K	C32 C33 C34 C35	1-124-455-00 1-163-038-00 1-124-455-00 1-163-038-00	ELECT 100MF CERAMIC CHIP 0.1MF ELECT 100MF CERAMIC CHIP 0.1MF	20%	16V 25V 16V 25V
RV1005 RV1006	1-228-989-00 1-228-989-00	RES, ADJ, METAL GLAZE 47 RES, ADJ, METAL GLAZE 47	0	C36	1-124-455-00	ELECT 100MF	20%	16V
RV1007 RV1008 RV1009	1-228-991-00 1-228-990-00 1-228-989-00	RES, ADJ, METAL GLAZE 2. RES, ADJ, METAL GLAZE 1K RES, ADJ, METAL GLAZE 47		C37 C38 C39	1-163-038-00 1-163-038-00 1-124-455-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 100MF		25V 25V 16V

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Ref. No	Part No.	Description		0	Remark	Ref. No	Part No.	Description			Remark	
C40 C41	1-163-038-00 1-124-455-00	CERAMIC CHIP O. BLECT 10		20%	25V 16V	C103 C104	1-124-589-11 1-124-589-11	ELECT ELECT	47MF 47MF	20% 20%	16V 16V	
C42 C46 C47 C48 C49	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP O.	. 1MF . 1MF . 1MF		25V 25V 25V 25V 25V	C105 C106 C107 C108 C109	1-124-589-11 1-124-589-11 1-124-589-11 1-124-589-11 1-124-589-11	ELECT ELECT ELECT ELECT ELECT	47MF 47MF 47MF 47MF 47MF	20% 20% 20% 20% 20%	16V 16V 16V 16V	
C50 C51 C52 C53 C54	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0. CERAMIC CHIP 0. CERAMIC CHIP 0. CERAMIC CHIP 0. CERAMIC CHIP 0.	.1MF .1MF .1MF		25V 25V 25V 25V 25V	C110 C111 C112 C113 C114	1-124-589-11 1-124-589-11 1-124-589-11 1-124-589-11 1-124-589-11	BLECT BLECT ELECT ELECT BLECT	47MF 47MF 47MF 47MF 47MF	20% 20% 20% 20% 20%	16V 16V 16V 16V 16V	
C55 C56 C57 C58 C59	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.	.1MF .1MF .1MF		25V 25V 25V 25V 25V	C115 C116 C117 C118 C119	1-163-009-11 1-124-589-11 1-163-109-00 1-163-038-00 1-163-038-00	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	47MF 47PF 0.1MF	10% 20% 5%	50V 16V 50V 25V 25V	
C60 C61 C62 C63 C64	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP O.	.1MF .1MF .1MF		25 V 25 V 25 V 25 V 25 V	CN1 CN2 CN3	*1-568-935-11 *1-573-912-11 *1-568-939-11	<pre><connector> PIN, CONNECT PIN, CONNECT PIN, CONNECT</connector></pre>	OR 14P			
C65 C66 C67 C68 C69	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP O.	. 1MF . 1MF . 1MF		25V 25V 25V 25V 25V	CT1	1-141-245-00	<pre><ceramic <filter="" cer="" tri="" trimmer,=""></ceramic></pre>				
C70 C71 C72 C73 C74	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP O.	.1MF .1MF .1MF		25 V 25 V 25 V 25 V 25 V	FL1 FL2 FL3 FL6 FL7	1-236-163-11 1-236-163-11 1-236-163-11 1-236-163-11 1-236-163-11	ENCAPSULATED ENCAPSULATED ENCAPSULATED ENCAPSULATED ENCAPSULATED	COMPONEN COMPONEN COMPONEN	Ť T T		
C75 C76 C77 C78 C79	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP O.	.1MF .1MF .1MF		25 V 25 V 25 V 25 V 25 V	FL8 FL9 FL10 FL11 FL12	1-236-163-11 1-236-163-11 1-236-163-11 1-236-163-11 1-236-163-11	BNCAPSULATED BNCAPSULATED BNCAPSULATED ENCAPSULATED BNCAPSULATED	COMPONEN COMPONEN COMPONEN	T T		
C80 C81 C82 C83 C84	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP O.	.1MF .1MF .1MF		25V 25V 25V 25V 25V	IC1 IC2 IC3 IC4	8-752-334-55 8-752-334-55 8-752-334-55 8-759-114-09	IC CXD1175AM IC CXD1175AM				
C85 C86 C87 C88 C89	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.	. 1MF . 1MF . 1MF		25V 25V 25V 25V 25V	IC5 IC6 IC7 IC8	8-759-140-94 8-759-060-72 8-759-154-50 8-759-916-25	IC CXD1332P IC DS1000M-7 IC CXD83010	5 NS			
C90 C91 C92 C93	1-163-038-00 1-163-038-00 1-163-038-00 1-124-589-11		.1MF .1MF 7MF 2	20%	25V 25V 25V 16V	IC9	- UP-	5200MD ONLY -	ZP-8			
C94 C95 C96 C97	1-124-589-11 1-124-589-11 1-124-589-11 1-124-589-11	ELECT 47 ELECT 47	7MF 2	20% 20% 20% 20%	16V 16V 16V 16V	IC10 IC11 IC12 IC13	8-759-323-59 8-759-323-59 8-759-323-59 8-759-323-59	IC HM514256A IC HM514256A IC HM514256A IC HM514256A	ZP-8 ZP-8	e e		
C99	1-124-589-11 1-124-589-11	ELECT 47	7MF 2	20% 20%	16V 16V	IC14 IC15 IC16	8-759-323-59 8-759-323-59 8-759-323-59	IC HM514256A IC HM514256A IC HM514256A	ZP-8			
C100 C101 C102	1-124-589-11 1-124-589-11 1-124-589-11	ELECT 47	7MF 2	20% 20% 20%	16V 16V 16V	IC17 IC18 IC19	8-759-323-59 8-759-323-59	IC HM514256A IC HM514256A IC HM514256A	ZP-8 ZP-8			

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Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description		Remark
IC20	8-759-323-59	IC HM514256AZP-8				<resistor></resistor>		
IC9 IC10 IC11	8-759-043-60 8-759-043-60	5250MD ONLY - IC HM51H240AZ7 IC HM51H240AZ7 IC HM51H240AZ7 IC HM51H240AZ7		R1 R2 R3 R4 R5	1-216-065-00 1-216-065-00 1-216-065-00 1-216-119-00 1-216-121-00	METAL GLAZE 4.	7K 5% 7K 5% 0K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
IC12 IC13 IC14 IC15	8-759-043-60 8-759-043-60 8-759-043-60	IC HM51H240AZ7 IC HM51H240AZ7 IC HM51H240AZ7 IC HM51H240AZ7 IC HM51H240AZ7		R7 R8 R9 R10	1-216-073-00 1-216-073-00	METAL GLAZE 101 METAL GLAZE 101 METAL GLAZE 101	5% K 5% K 5%	1/10W 1/10W 1/10W 1/10W
IC16 IC17 IC18		IC HM51H240AZ7 IC HM51H240AZ7 IC HM51H240AZ7 IC HM51H240AZ7 IC HM51H240AZ7 IC HM51H240AZ7		R11 R12 R13 R14	1-216-033-00	METAL GLAZE 220 METAL GLAZE 220 METAL GLAZE 220 METAL GLAZE 220	0 5% 0 5%	1/10W 1/10W 1/10W 1/10W
IC19 IC20	8-759-043-60 8-759-043-60	IC HM51H240AZ7 IC HM51H240AZ7		R15 R16	1-216-033-00	METAL GLAZE 220 METAL GLAZE 220	0 5%	1/10W 1/10W
IC21 IC22 IC23 IC24 IC25	8-759-033-44 8-759-033-44 8-759-033-44 8-759-033-48	IC MC74F245M IC MC74F245M IC MC74F245M IC MC74F257M		R17 R18 R19 R20 R21	1-216-033-00	METAL GLAZE 220	0 5% 0 5% 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W
IC26 IC27 IC28 IC29 IC30	8-759-916-25 8-759-925-74 8-759-059-92 8-759-114-07 8-759-053-96	IC TC74HC86AF IC SN74HC32ANS IC SN74HC04ANS IC HD6435328RB13F IC UPD65013GF-407-3BA IC CXD8328Q IC SN74HC08ANS IC IDT6116SA35TP IC IDT6116SA35TP IC IDT6116SA35TP IC CXD8301Q IC HN62302BF-Z11 IC HN62302BF-Z12 IC SN74HC574ANS IC SN74HC541ANS IC SN74HC541ANS IC SN74HC541ANS IC SN74HC541ANS IC CXD8301Q IC CXD8301Q IC CXD8301Q IC CXD8301Q IC CXA1260Q-Z		R22 R23 R24 R25 R26	1-216-037-00 1-216-059-00	METAL GLAZE 33 METAL GLAZE 33 METAL GLAZE 33 METAL GLAZE 2. METAL GLAZE 10	0 5% 0 5% 7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
1C32 1C33 1C34 1C35 1C36	8-759-925-76 8-759-514-88 8-759-514-88 8-759-514-88 8-759-154-50	IC SN74HCO8ANS IC IDT6116SA35TP IC IDT6116SA35TP IC IDT6116SA35TP IC CXD83010		R27 R28 R29 R30 R31	1-216-001-00 1-216-059-00 1-216-001-00	METAL GLAZE 2." METAL GLAZE 10 METAL GLAZE 2." METAL GLAZE 10 METAL GLAZE 47	5% 7K 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
IC37 IC38 IC39 IC40 IC41	8-759-057-50 8-759-057-51 8-759-926-82 8-759-926-77 8-759-926-77	IC HN62302BF-Z11 IC HN62302BF-Z12 IC SN74HC574ANS IC SN74HC541ANS IC SN74HC541ANS	·	R32 R33 R34 R35 R36	1-216-053-00 1-216-001-00 1-216-001-00 1-216-001-00 1-216-121-00	METAL GLAZE 10	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
IC42 IC43 IC44 IC45 IC46	8-759-926-77 8-759-112-06 8-759-154-50 8-759-154-50 8-752-032-93	IC SN74HC541ANS IC UPC78N05H IC CXD83010 IC CXD83010 IC CXA12600-Z		R37 R38 R39 R40 R43	1-216-057-00 1-216-049-00 1-216-073-00	METAL GLAZE 3.3 METAL GLAZE 2.2 METAL GLAZE 1K METAL GLAZE 10 METAL GLAZE 1K	2K 5% 5% K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
IC47 IC48 IC49	8-759-033-24 8-759-057-52 8-759-060-71	IC MC74F139M IC HN62302BF-Z13 IC CXD8327Q		R44 R45 R46 R47 R48	1-216-049-00 1-216-049-00 1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
L1 L3 L4 L5 L6	1-407-169-XX 1-412-525-21 1-412-525-21 1-412-525-21 1-407-169-XX	<pre><inductor> INDUCTOR 100UH INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 100UH</inductor></pre>		R49 R50 R51 R52 R53	1-216-049-00 1-216-049-00 1-216-049-00 1-216-049-00 1-216-037-00	METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 330	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
L7 L8	1-407-169-XX 1-407-169-XX	INDUCTOR 100UH INDUCTOR 100UH <transistor></transistor>		R54 R55 R56 R57	1-216-045-00 1-216-073-00 1-216-073-00 1-247-734-81	METAL GLAZE 10 METAL GLAZE 10 METAL GLAZE 10 METAL GLAZE 39	5%	1/10W 1/10W 1/10W 1/2W F
01 02 03	8-729-967-32 8-729-967-32 8-729-967-32	TRANSISTOR 2SC2673 TRANSISTOR 2SC2673 TRANSISTOR 2SC2673		RB1 RB2	1-231-405-00 1-231-405-00	RESISTOR BLOCK 1 RESISTOR BLOCK 1	LK	

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RB3 1-231-405-00 RESISTOR BLOCK 1K RB4 1-231-385-00 RESISTOR BLOCK 4.7K RB5 1-231-385-00 RESISTOR BLOCK 4.7K RB6 1-231-385-00 RESISTOR BLOCK 4.7K C42 1-163-033-00 CERAMIC CHIP 0.022MF C43 1-124-907-11 ELECT 10MF 20% C44 1-163-033-00 CERAMIC CHIP 0.022MF C45 1-124-907-11 ELECT 10MF 20% C47 1-163-033-00 CERAMIC CHIP 0.022MF C48 1-124-907-11 ELECT 10MF 20% C49 1-124-443-00 ELECT 10MF 20% C49 1-124-443-00 ELECT 10MF 20% C49 1-124-443-00 ELECT 10MF 20% C50 1-163-033-00 CERAMIC CHIP 0.022MF	16V 50V 50V 50V 50V 50V 6.3V 6.3V 50V
CRYSTAL> C46 1-163-033-00 CERAMIC CHIP 0.022MF C47 1-163-033-00 CERAMIC CHIP 0.022MF C47 1-163-033-00 CERAMIC CHIP 0.022MF C48 1-124-443-00 C48 1-124-443-00 C49 1-124-443-00 C49 1-124-443-00 C49 C49 C49 C49 C49 C49 C49 C	50V 50V 6.3V 6.3V 50V
X1 1-567-878-11 VIBRATOR, CRYSTAL 14.318MHz C49 1-124-443-00 ELECT 100MF 20% C49 1-124-443-00 ELECT 100MF 20%	50V 6.3V 6.3V 50V
	100
**************************************	10V 10V 10V 50V
*1-526-659-00 SOCKET, IC (DP) 28P	50V
*1-535-199-11 TERMINAL, SOLDERLESS C64 1-163-033-00 CERAMIC CHIP 0.022MF *C65 1-163-033-00 CERAMIC CHIP 0.022MF *C66 1-163-033-00 CERAMIC CHIP 0.022MF *C67 1-163-033-00 CERAMIC CHIP 0.022MF *C68 1-163-033-00 CERAMIC CHIP 0.022MF	50V 50V 50V 50V
C1 1-124-480-11 ELECT 470MF 20% 25V C67 1-163-033-00 CERAMIC CHIP 0.022MF C2 1-124-480-11 ELECT 470MF 20% 25V C68 1-163-033-00 CERAMIC CHIP 0.022MF C3 1-124-477-11 ELECT 47MF 20% 16V C69 1-163-033-00 CERAMIC CHIP 0.022MF C4 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V C70 1-163-033-00 CERAMIC CHIP 0.022MF C5 1-124-907-11 ELECT 10MF 20% 50V C71 1-163-033-00 CERAMIC CHIP 0.022MF	50V 50V 50V 50V
C6 1-163-033-00 CERAMIC CHIP 0.022MF 50V C72 1-163-033-00 CERAMIC CHIP 0.022MF C7 1-163-033-00 CERAMIC CHIP 0.022MF 50V C73 1-163-033-00 CERAMIC CHIP 0.022MF C8 1-124-126-00 ELECT 47MF 20% 10V C74 1-163-033-00 CERAMIC CHIP 0.022MF C9 1-164-161-11 CERAMIC CHIP 0.0022MF 50V C75 1-163-033-00 CERAMIC CHIP 0.022MF C10 1-163-033-00 CERAMIC CHIP 0.022MF 50V C76 1-163-033-00 CERAMIC CHIP 0.022MF	50V 50V 50V 50V
C11 1-163-033-00 CERAMIC CHIP 0.022MF 50V C77 1-163-033-00 CERAMIC CHIP 0.022MF C12 1-163-033-00 CERAMIC CHIP 0.001MF 10% 50V C78 1-163-033-00 CERAMIC CHIP 0.022MF C13 1-163-033-00 CERAMIC CHIP 0.022MF 50V C79 1-163-033-00 CERAMIC CHIP 0.022MF C14 1-163-033-00 CERAMIC CHIP 0.022MF 50V C80 1-163-033-00 CERAMIC CHIP 0.022MF C15 1-163-033-00 CERAMIC CHIP 0.022MF 50V C81 1-163-033-00 CERAMIC CHIP 0.022MF	50V 50V 50V 50V
C16 1-163-033-00 CERAMIC CHIP 0.022MF 50V C82 1-163-033-00 CERAMIC CHIP 0.022MF C17 1-163-101-00 CERAMIC CHIP 22PF 5% 50V C83 1-163-033-00 CERAMIC CHIP 0.022MF C18 1-163-101-00 CERAMIC CHIP 22PF 5% 50V C84 1-163-033-00 CERAMIC CHIP 0.022MF C19 1-124-902-00 ELECT 0.47MF 20% 50V C85 1-163-033-00 CERAMIC CHIP 0.022MF C20 1-124-902-00 ELECT 0.47MF 20% 50V C101 1-163-117-00 CERAMIC CHIP 100PF 5%	50V 50V 50V 50V
C21 1-163-005-11 CERAMIC CHIP 470PF 10% 50V C22 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V C23 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V C24 1-163-101-00 CERAMIC CHIP 22PF 5% 50V C25 1-163-101-00 CERAMIC CHIP 22PF 5% 50V C108 1-163-117-00 CERAMIC CHIP 100PF 5% C108 1-163-117-00 CERAMIC CHIP 100PF	50V 50V 50V
C26 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V	
C27 1-124-126-00 ELECT 47MF 20% 10V CN1 *1-568-935-11 PIN, CONNECTOR 8P C28 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V C29 1-163-117-00 CERAMIC CHIP 100PF 5% 50V CN3 *1-568-935-11 PIN, CONNECTOR 8P CN3 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V CN4 *1-568-935-11 PIN, CONNECTOR 8P CN5 *1-568-939-41 PIN, CONNECTOR 8P	
C31 1-163-033-00 CERAMIC CHIP 0.022MF 50V C32 1-163-033-00 CERAMIC CHIP 0.022MF 50V C33 1-163-117-00 CERAMIC CHIP 100PF 5% 50V CN6 *1-568-955-91 PIN, CONNECTOR (STRAIGHT) 61 CN7 *1-568-954-11 PIN, CONNECTOR 5P CN8 *1-568-937-11 PIN, CONNECTOR 5P CN9 *1-568-937-11 PIN, CONNECTOR 6P CN9 *1-568-951-11 PIN, CONNECTOR 6P CN10 *1-568-951-11 PIN, CONNECTOR 2P	
C36 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V C37 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V C38 1-163-101-00 CERAMIC CHIP 22PF 5% 50V C39 1-163-101-00 CERAMIC CHIP 22PF 5% 50V C40 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V CN11 *1-568-951-11 PIN, CONNECTOR 2P CN12 *1-560-891-00 PIN, CONNECTOR 3P CN13 *1-506-468-11 PIN, CONNECTOR 3P CN14 *1-568-951-11 PIN, CONNECTOR 2P	

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description		Rema	irk
CN15	*1-568-955-11	PIN, CONNECTOR 6P				<inductor></inductor>			
CN16	*1-568-951-11	PIN, CONNECTOR 2P PIN, CONNECTOR 2P		L1	1-412-532-11	INDUCTOR 39	UH		
CN17 CN18	*1-568-951-11 *1-568-951-11	PIN, CONNECTOR 2P	n			<transistor></transistor>			
CN19 CN20	*1-568-951-91 *1-568-951-11	PIN, CONNECTOR (STRAIGHT) 2 PIN, CONNECTOR 2P	P	01	8-729-901-04	TRANSISTOR DTA114			
CN21	*1-506-468-11	PIN, CONNECTOR 3P	n	Q2 Q3	8-729-901-00 8-729-177-22	TRANSISTOR DTC124 TRANSISTOR 2SB772	- Q		
CN22 CN30	*1-568-952-11 *1-562-719-11	PIN, CONNECTOR (STRAIGHT) 3 SOCKET, CONNECTOR 10P	r	Q4 Q5	8-729-177-22 8-729-101-73	TRANSISTOR 2SB772 TRANSISTOR 2SD992	- u A - Р		
CN40 CN41	*1-506-468-11 *1-568-951-11	PIN, CONNECTOR 3P PIN, CONNECTOR 2P		96	8-729-101-73	TRANSISTOR 2SD992	A - P		
		<diode></diode>		97 98 99	8-729-101-73 8-729-101-73	TRANSISTOR 2SD992 TRANSISTOR 2SD992 TRANSISTOR 2SD992	A - P		
D1 D2	8-719-200-02 8-719-200-02	DIODE 10E-2 DIODE 10E-2		Q10	8-729-101-73 8-729-101-73	TRANSISTOR 2SD992 TRANSISTOR 2SD992			
D3 D4	8-719-104-34 8-719-104-34	DIODE 182836 DIODE 182836		Q11	8-729-100-66 8-729-100-66	TRANSISTOR 2SC162			
D5	8-719-104-34	DIODE 182836	•	012	8-129-100-00	TRANSISTOR 2SC162 <resistor></resistor>	3		
D6 D7	8-719-104-34 8-719-104-34	DIODE 182836 DIODE 182836		R1	1-216-065-00		E 9/	1 /100	
D9 D11	8-719-104-34 8-719-104-34	DIODE 152836 DIODE 152836		R2 R3	1-216-065-00 1-216-065-00	METAL GLAZE 4.7K METAL GLAZE 4.7K METAL GLAZE 4.7K	5%	1/10W 1/10W 1/10W	
<i>D</i> 11	0-115-104-04	<filter></filter>		R4 R5	1-216-065-00 1-216-043-00	METAL GLAZE 4.7K METAL GLAZE 560		1/10W 1/10W 1/10W	
FL1	1-236-058-11	ENCAPSULATED COMPONENT		R6	1-216-043-00	METAL GLAZE 560	5%	1/10W	
FL2 FL3	1-236-058-11 1-236-058-11	ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT		R7 R8	1-216-043-00 1-216-043-00	METAL GLAZE 560 METAL GLAZE 560	5% 5%	1/10W 1/10W	
FL4 FL5	1-236-058-11 1-236-058-11	ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT		R9 R10	1-216-033-00 1-216-033-00	METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W 1/10W	
100	1 200 000 11	<ic></ic>		R11	1-216-033-00	METAL GLAZE 220	5%	1/10W	
IC1	8-759-043-40	IC UPD78310AGF-3BE		R12 R13	1-216-033-00 1-207-678-00	METAL GLAZE 220 WIREWOUND 10	5% 10% 5	1/10W	
IC2 IC3		IC UPD71055GB-3B4 IC MB89371APF		R14 R15	1-207-678-00 1-207-678-00	WIREWOUND 10 WIREWOUND 10	10% 5	W F	
IC5 IC6	8-759-500-67 8-752-322-06	IC AM27C010-155DC IC CXK5814P-35		R16	1-249-385-11	CARBON 2.2	5%	1/4₩	
IC7	·	IC CXK5814P-35		R17 R18	1-216-049-00 1-216-025-00	METAL GLAZE 1K METAL GLAZE 100	5% 5%	1/10W 1/10W	
1C8		IC CXK5814P-35 IC CXK1005P		R19 R20	1-260-099-11 1-216-073-00	CARBON 1K METAL GLAZE 10K	5% 1/ 5%		
IC10 IC11	8-752-321-18 8-759-154-84	IC CXK1005P IC HDC443V2		R21	1-216-057-00	METAL GLAZE 2.2K		1/10W	
IC12	8-759-988-27	IC SN75188NS		R22 R23	1-216-033-00 1-216-049-00		5% 5%	1/10W 1/10W	
IC13 IC14	8-759-988-24 8-795-926-80	IC SN75189ANS IC SN74HC573BNS		R24 R25	1-249-390-11 1-216-065-00	CARBON 5.6 METAL GLAZE 4.7K	5%	1/4W 1/10W	
IC15 IC16	8-795-926-80 8-759-926-12	IC SN74HC573BNS IC SN74HC139ANS		R26	1-216-065-00	METAL GLAZE 4.7K		1/10W	
IC17	8-759-926-12	IC SN74HC139ANS		R27 R28	1-216-033-00 1-216-037-00	METAL GLAZE 220 METAL GLAZE 330	5% 5%	1/10W 1/10W	
IC18 IC19	8-759-970-26 8-759-600-24	IC PST523C IC M54543L		R29 R30	1-216-093-00 1-216-073-00	METAL GLAZE 68K METAL GLAZE 10K	5% 5%	1/10W 1/10W	
IC20 IC21	8-759-925-76 8-759-916-25	IC SN74HC08ANS IC SN74HC32ANS		R31	1-216-065-00	METAL GLAZE 4.7K		1/10W	
IC22		IC SN74HC244ANS		R32 R33	1-216-049-00 1-216-037-00	METAL GLAZE 1K METAL GLAZE 330	5% 5%	1/10W 1/10W	
IC23 IC24	8-759-926-44 8-759-925-74	IC SN74HC24OANS IC SN74HC04ANS		R34 R35	1-216-081-00 1-216-073-00	METAL GLAZE 22K METAL GLAZE 10K	5% 5%	1/10W 1/10W	
IC25 IC26	8-759-925-74 8-759-100-95	IC SN74HCO4ANS IC UPC324G2		R36	1-216-073-00	METAL GLAZE 10K	5%	1/10W	
IC27	8-759-100-93	IC UPC393G2		R37 R38	1-216-097-00 1-216-065-00	METAL GLAZE 100K METAL GLAZE 4.7K	5%	1/10W 1/10W	
1C28 1C29	8-759-100-97 8-759-926-44	IC UPC339G2 IC SN74HC240ANS		R39 R40	1-216-101-00 1-216-049-00	METAL GLAZE 150K METAL GLAZE 1K	5% 5%	1/10W 1/10W	

SY-9

Ref.No	Part No.	Description			Remark	Ref.No	Part No.	Description			Remark
R42 R43 R44 R45 R46	1-216-089-00 1-216-089-00 1-216-089-00 1-216-037-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 47K 330 68K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R102 R103 R104 R105 R106	1-216-073-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K 10K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R47 R48 R49 R50 R51	1-216-037-00 1-216-093-00 1-216-073-00 1-216-073-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330 68K 10K 10K 3.9K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R107 R108 R109 R110 R111	1-216-073-00 1-216-089-00 1-216-089-00 1-216-089-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 47K 47K 47K 47K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R52 R53 R54 R55 R56	1-216-067-00 1-216-065-00 1-216-065-00 1-216-121-00 1-216-121-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 4.7K 4.7K 1M 1M	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R112 R113 R114 R115 R116	1-216-089-00 1-216-089-00 1-216-089-00 1-216-089-00 1-216-748-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 47K 47K 39K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R57 R58 R59 R60 R61	1-216-073-00 1-216-037-00 1-216-083-00 1-216-037-00 1-216-079-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 330 27K 330 18K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R117 R118 R119 R120 R121	1-216-073-00 1-216-069-00 1-216-045-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 6.8K 680 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R62 R63 R64 R65 R66	1-216-069-00 1-216-063-00 1-216-073-00 1-216-073-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 3.9K 10K 10K 220K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R132 R133 R134 R135 R136	1-216-073-00 1-216-073-00 1-216-073-00 1-216-049-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K 1K 47K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R67 R68 R69 R70 R71	1-216-105-00 1-216-065-00 1-216-065-00 1-216-037-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220K 4.7K 4.7K 330 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R137 R140 R141 R143 R144	1-216-049-00 1-216-073-00 1-216-089-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 10 K 47 K 1 K 1 K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R72 R73 R74 R75 R76	1-216-037-00 1-216-081-00 1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330 22K 1K 1K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R145 R146 R147 R148 R149	1-216-121-00 1-216-049-00 1-216-025-00 1-216-065-00 1-216-049-00		1M 1K 100 4.7K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R77 R78 R79 R80 R81	1-216-049-00 1-216-049-00 1-216-049-00 1-216-049-00 1-216-121-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1K 1K 1M	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R150 R151 R152 R153 R154	1-216-049-00 1-216-049-00 1-216-049-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1OK 1OK	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R82 R83 R84 R85 R86	1-216-073-00 1-216-101-00 1-216-073-00 1-216-101-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R155 R156 R157 R158 R159	1-216-097-00 1-216-097-00 1-216-059-00 1-216-055-00 1-216-091-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 100K 2.7K 1.8K 56K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R87 R88 R89 R90 R91	1-216-049-00 1-216-295-00 1-216-049-00 1-216-043-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 K 0 1 K 560 1 K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R160 R161 R162 R163 R164	1-216-081-00 1-216-073-00 1-216-069-00 1-216-748-11 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 10K 6.8K 39K 100K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R92 R93 R94 R95 R96	1-216-075-00 1-216-075-00 1-216-075-00 1-216-033-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	12K 12K 12K 220 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R165 R166		METAL GLAZE METAL GLAZE <variable re<="" td=""><td></td><td></td><td>1/10W 1/10W</td></variable>			1/10W 1/10W
R97 R98 R99 R100 R101	1-216-049-00 1-216-025-00 1-216-065-00 1-216-049-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 100 4.7K 1K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	RV1 S1 S3	1-238-784-11 1-553-856-00 1-553-856-00	<switch></switch>	BOARD		

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description		Remark
S4 S5 S6	1-553-856-00 1-570-856-11 1-570-856-11	SWITCH, KEY BOARD		C405 C406	1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		25V 25V
TH1	1-800-202-XX	SWITCH, SLIDE SWITCH, SLIDE <thermister> THERMISTOR S-10K</thermister>		C407 C408 C409 C410 C411	1-124-234-00 1-163-038-00 1-124-234-00 1-163-038-00 1-124-234-00	ELECT 22MF CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 0.1MF ELECT 22MF	20% 20% 20%	16V 25V 16V 25V 16V
X1 X2 X3	1-567-862-11 1-567-865-11 1-577-076-11	<pre><crystal> VIBRATOR, CRYSTAL 4.9152M VIBRATOR, CRYSTAL 12MHz VIBRATOR, CRYSTAL 16MHz</crystal></pre>		C412 C500 C501 C502	1-163-038-00 1-124-234-00 1-124-234-00 1-124-234-00	CERAMIC CHIP 0.1MF ELECT 22MF ELECT 22MF ELECT 22MF	20% 20% 20%	25V 16V 16V 16V
*****	******	********	*****	C503	1-124-234-00	ELECT 22MF	20%	16V
		IF-19 BOARD, COMPLETE ***********************************		C504 C505 C506 C507 C508	1-163-038-00 1-163-038-00 1-163-038-00 1-124-234-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 0.1MF	20%	25V 25V 25V 16V 25V
C101 C102 C103 C104 C105	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	25V 25V 25V 25V 25V	C509 C510 C511 C512 C600	1-124-234-00 1-163-038-00 1-124-234-00 1-163-038-00 1-124-234-00	ELECT 22MF CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 0.1MF ELECT 22MF	20% 20% 20%	16V 25V 16V 25V 16V
C106 C107 C108 C109 C110	1-163-038-00 1-163-038-00 1-163-038-00 1-124-234-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 0.1MF	25V 25V 25V 16V 25V	C601 C602 C603 C604 C605	1-124-234-00 1-124-234-00 1-124-234-00 1-163-038-00 1-163-038-00	ELECT 22MF ELECT 22MF ELECT 22MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	20% 20% 20%	16V 16V 16V 25V 25V
C111 C112 C200 C201 C202	1-124-234-00 1-163-038-00 1-124-234-00 1-124-234-00 1-124-234-00	BLECT 22MF 20% CBRAMIC CHIP 0.1MF 0.1MF 0.1MF BLECT 22MF 20% ELECT 22MF 20% ELECT 22MF 20%	25V 16V 16V	C606 C607 C608 C609 C610	1-163-038-00 1-124-234-00 1-163-038-00 1-124-234-00 1-163-038-00	CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 0.1MF	20%	25V 16V 25V 16V 25V
C203 C204 C205 C206 C207	1-124-234-00 1-163-038-00 1-163-038-00 1-163-038-00 1-124-234-00	BLECT 22MF 20% CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 22MF 20%	25V 25V 25V	C611 C612 C700 C701 C702	1-124-234-00 1-163-038-00 1-124-234-00 1-124-234-00 1-124-234-00	CERAMIC CHIP 0.1MF ELECT 22MF ELECT 22MF ELECT 22MF ELECT 22MF	20% 20% 20% 20%	16V 25V 16V 16V 16V
C208 C209 C210 C211 C212	1-163-038-00 1-124-234-00 1-163-038-00 1-124-234-00 1-163-038-00	CERAMIC CHIP 0.1MF ELECT 22MF 20% CERAMIC CHIP 0.1MF ELECT 22MF 20% CERAMIC CHIP 0.1MF	25V	C703 C704 C705 C706 C707	1-124-234-00 1-163-038-00 1-163-038-00 1-163-038-00 1-124-234-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 22MF	20%	16V 25V 25V 25V 16V
C300 C301 C302 C303 C304	1-124-234-00 1-124-234-00 1-124-234-00 1-124-234-00 1-163-038-00		16V 16V	C708 C709 C710 C711 C712	1-163-038-00 1-124-234-00 1-163-038-00 1-124-234-00 1-163-038-00	CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 0.1MF	20% 20%	25V 16V 25V 16V 25V
C305 C306 C307 C308 C309	1-163-038-00 1-163-038-00 1-124-234-00 1-163-038-00 1-124-234-00	CBRAMIC CHIP 0.1MF CBRAMIC CHIP 0.1MF BLECT 22MF 20% CBRAMIC CHIP 0.1MF BLECT 22MF 20%	25V	C801 C802 C803 C804 C805	1-163-038-00 1-126-177-11 1-163-038-00 1-126-177-11 1-163-038-00	CERAMIC CHIP 0.1MF ELECT 100MF CERAMIC CHIP 0.1MF ELECT 100MF CERAMIC CHIP 0.1MF	20%	25V 10V 25V 10V 25V
C310 C311 C312 C400 C401	1-163-038-00 1-124-234-00 1-163-038-00 1-124-234-00 1-124-234-00	CERAMIC CHIP 0.1MF ELECT 22MF 20% CERAMIC CHIP 0.1MF ELECT 22MF 20% ELECT 22MF 20%	25V 16V	C806 C807 C808 C810 C811	1-126-177-11 1-163-038-00 1-126-177-11 1-126-177-11 1-163-038-00	CERAMIC CHIP 0.1MF ELECT 100MF ELECT 100MF CBRAMIC CHIP 0.1MF	20% 20% 20%	10V 25V 10V 10V 25V
C402 C403 C404	1-124-234-00 1-124-234-00 1-163-038-00	BLECT 22MF 20% CERAMIC CHIP 0.1MF		C812	1-163-038-00	CERAMIC CHIP 0.1MF		25V

Ref.No	Part No.	Description	Remark	Ref. No	Part No.	Description		Remark	
CN101 CN102	*1-569-803-11 *1-569-803-11	<pre><connector> CONNECTOR, (S) TERMINAL 4P CONNECTOR, (S) TERMINAL 4P</connector></pre>		IC201 IC301 IC401 IC501	8-759-710-85 8-759-710-85 8-759-710-85 8-759-710-85	IC NJM2233BD IC NJM2233BD IC NJM2233BD IC NJM2233BD			
CN103 CN104 CN303	*1-568-942-11 *1-568-942-11 *1-568-940-11	PIN, CONNECTOR 4P PIN, CONNECTOR 4P PIN, CONNECTOR 2P		1C601 1C701	8-759-710-85	IC NJM2233BD IC NJM2233BD			
CN304 CN403 CN404	*1-568-940-11 *1-568-946-11 *1-568-946-11	PIN, CONNECTOR 2P PIN, CONNECTOR 8P PIN, CONNECTOR 8P		L801	1-408-970-21	<inductor> INDUCTOR 10UH</inductor>			
CN801 CN802	*1-568-941-11 *1-568-942-11	PIN, CONNECTOR 3P PIN, CONNECTOR 4P		L802 L803 L804	1-408-970-21 1-408-970-21 1-408-970-21	INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 10UH	•		
		<diode></diode>		L805	1-408-970-21	INDUCTOR 10UH			
D101 D102 D103 D104 D201	8-719-106-23 8-719-400-18 8-719-106-23 8-719-106-23 8-719-106-23	DIODE RD7.5M-B2 DIODE MA152WK DIODE RD7.5M-B2 DIODE RD7.5M-B2 DIODE RD7.5M-B2		Q101 Q102 Q103	8-729-100-66 8-729-100-66 8-729-216-22	<transistor> TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SA1162</transistor>			
D202 D203	8-719-400-18 8-719-106-23	DIODE MA152WK DIODE RD7.5M-B2		Q104 Q105	8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623			
D204 D301 D302	8-719-106-23 8-719-106-23 8-719-400-18	DIODE RD7.5M-B2 DIODE RD7.5M-B2 DIODE MA152WK		Q106 Q107 Q201 Q202	8-729-100-66 8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623			
D303 D304 D401 D402	8-719-106-23 8-719-106-23 8-719-106-23 8-719-400-18	DIODE RD7.5M-B2 DIODE RD7.5M-B2 DIODE RD7.5M-B2 DIODE MA152WK		9203 9204 9205	8-729-216-22 8-729-100-66 8-729-100-66	TRANSISTOR 2SA1162 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623			
D403 D404	8-719-106-23 8-719-106-23	DIODE RD7.5M-B2 DIODE RD7.5M-B2		9206 9207 9301	8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 25C1623 TRANSISTOR 25C1623 TRANSISTOR 25C1623 TRANSISTOR 25C1623			
D501 D502 D503 D504	8-719-106-23 8-719-400-18 8-719-106-23 8-719-106-23	DIODE RD7.5M-B2 DIODE MA152WK DIODE RD7.5M-B2 DIODE RD7.5M-B2		Q302 Q303 Q304	8-729-100-66 8-729-216-22 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SA1162 TRANSISTOR 2SC1623			
D601 D602 D603	8-719-106-23 8-719-400-18 8-719-106-23	DIODE RD7.5M-B2 DIODE MA152WK DIODE RD7.5M-B2		9305 9306 9307	8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623			
D604 D701	8-719-106-23 8-719-106-23	DIODE RD7.5M-B2 DIODE RD7.5M-B2		0401 0402 0403	8-729-100-66 8-729-100-66 8-729-216-22	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SA1162			
D702 D703 D704	8-719-400-18 8-719-106-23 8-719-106-23	DIODB MA152WK DIODE RD7.5M-B2 DIODE RD7.5M-B2		Q404 Q405	8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623			
		<filter></filter>		9406 9407 9501	8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623			
FL101 FL102 FL201	1-236-101-11 1-236-101-11 1-236-101-11	ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT		Q502 Q503	8-729-100-66 8-729-216-22	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623			
FL202 FL301	1-236-101-11 1-236-101-11	ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT		9504 9505 9506	8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623			
FL302 FL401 FL402 FL501	1-236-101-11 1-236-101-11 1-236-101-11 1-236-101-11	ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT		9507 9601 9602	8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623			
FL502 FL601	1-236-101-11 1-236-101-11	ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT		9603 9604 9605	8-729-216-22 8-729-100-66 8-729-100-66	TRANSISTOR 2SA1162 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623			
FL602 FL701 FL702	1-236-101-11 1-236-101-11 1-236-101-11	ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT ENCAPSULATED COMPONENT		9606 9607 9701		TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623			
10101	0 750 710 05	<ic></ic>		Q702 Q703	8-729-100-66 8-729-216-22	TRANSISTOR 2SC1623 TRANSISTOR 2SA1162			
IC101	8-759-710-85	IC NJM2233BD		ì					

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description			Remark
Q704 Q705	8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623		R227	1-216-057-00	METAL GLAZE 2	.2K 5	3%	1/10W
9706 9707 9802	8-729-100-66 8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 <resistor></resistor>		R228 R301 R302 R303 R304	1-216-025-00 1-216-631-11 1-216-631-11 1-216-025-00 1-216-081-00	METAL CHIP 1 METAL CHIP 1 METAL GLAZE 1	50 0 50 0 00 5	.50% .50%	
R101	1-216-631-11	METAL CHIP 150	0.50% 1/10W	R305	1-216-057-00				1/10W
R102 R103 R104 R105	1-216-631-11 1-216-025-00 1-216-081-00 1-216-057-00	METAL CHIP 150 METAL GLAZE 100 METAL GLAZE 22K METAL GLAZE 2.2K	0.50% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	R306 R307 R308 R309	1-216-025-00 1-216-089-00 1-216-081-00 1-216-049-00	METAL GLAZE 1 METAL GLAZE 4	00 5 7k 5 2k 5	% % %	1/10W 1/10W 1/10W 1/10W
R106 R107 R108 R109 R110	1-216-025-00 1-216-089-00 1-216-081-00 1-216-049-00 1-216-045-00	METAL GLAZE 100 METAL GLAZE 47K METAL GLAZE 22K METAL GLAZE 1K METAL GLAZE 680	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	R310 R311 R312 R313 R314	1-216-045-00 1-216-039-00 1-216-077-00 1-216-025-00 1-216-085-00	METAL GLAZE 3 METAL GLAZE 1 METAL GLAZE 1	90 5 5k 5 00 5	% %	1/10W 1/10W 1/10W 1/10W 1/10W
R111 R112 R113 R114 R115	1-216-039-00 1-216-077-00 1-216-025-00 1-216-085-00 1-216-049-00	METAL GLAZE 390 METAL GLAZE 15K METAL GLAZE 100 METAL GLAZE 33K METAL GLAZE 1K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	R315 R316 R317 R318 R319	1-216-049-00 1-216-025-00 1-216-023-00 1-216-023-00 1-216-023-00	METAL GLAZE 1 METAL GLAZE 1 METAL GLAZE 8 METAL GLAZE 8 METAL GLAZE 8	00 5 2 5 2 5	% %	1/10W 1/10W 1/10W 1/10W 1/10W
R116 R117 R118 R119 R120	1-216-025-00 1-216-023-00 1-216-023-00 1-216-023-00 1-216-023-00	METAL GLAZE 100 METAL GLAZE 82 METAL GLAZE 82 METAL GLAZE 82 METAL GLAZE 82	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	R320 R321 R322 R323 R324	1-216-023-00 1-216-023-00 1-216-023-00 1-216-631-11 1-216-631-11		2 5 2 5 50 0	%	
R121 R122 R123 R124 R125	1-216-023-00 1-216-023-00 1-216-631-11 1-216-631-11 1-216-025-00	METAL GLAZE 82 METAL GLAZE 82 METAL CHIP 150 METAL CHIP 150 METAL GLAZE 100	5% 1/10W 5% 1/10W 0.50% 1/10W 0.50% 1/10W 5% 1/10W	R325 R326 R327 R328 R401	1-216-025-00 1-216-025-00 1-216-057-00 1-216-025-00 1-216-631-11	METAL GLAZE 1 METAL GLAZE 2 METAL GLAZE 1	00 5 .2K 5 00 5	% %	1/10W 1/10W 1/10W 1/10W 1/10W
R126 R127 R128 R201 R202	1-216-025-00 1-216-057-00 1-216-025-00 1-216-631-11 1-216-631-11	METAL GLAZE 100 METAL GLAZE 2.2K METAL GLAZE 100 METAL CHIP 150 METAL CHIP 150	5% 1/10W 5% 1/10W 5% 1/10W 0.50% 1/10W 0.50% 1/10W	R402 R403 R404 R405 R406	1-216-631-11 1-216-025-00 1-216-081-00 1-216-057-00 1-216-009-00	METAL GLAZE 1 METAL GLAZE 2	00 5 2K 5 .2K 5	%	1/10W 1/10W 1/10W 1/10W 1/10W
R203 R204 R205 R206 R207	1-216-025-00 1-216-081-00 1-216-057-00 1-216-025-00 1-216-089-00	METAL GLAZE 100 METAL GLAZE 22K METAL GLAZE 2.2K METAL GLAZE 100 METAL GLAZE 47K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	R407 R408 R409 R410 R411	1-216-089-00 1-216-081-00 1-216-049-00 1-216-045-00 1-216-039-00	METAL GLAZE 2 METAL GLAZE 1 METAL GLAZE 6	7K 5 2K 5 K 5 80 5	% % %	1/10W 1/10W 1/10W 1/10W 1/10W
R208 R209 R210 R211 R212	1-216-081-00 1-216-049-00 1-216-045-00 1-216-039-00 1-216-077-00	METAL GLAZE 22K METAL GLAZE 1K METAL GLAZE 680 METAL GLAZE 390 METAL GLAZE 15K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	R413 R414 R415 R416 R417	1-216-025-00 1-216-085-00 1-216-049-00 1-216-025-00 1-216-023-00	METAL GLAZE 3	00 5	% %	1/10W 1/10W 1/10W 1/10W 1/10W
R213 R214 R215 R216 R217	1-216-025-00 1-216-085-00 1-216-049-00 1-216-025-00 1-216-023-00	METAL GLAZE 100 METAL GLAZE 33K METAL GLAZE 1K METAL GLAZE 100 METAL GLAZE 82	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	R417 R418 R419 R420 R421	1-216-077-00 1-216-023-00 1-216-023-00 1-216-023-00 1-216-023-00	METAL GLAZE 1 METAL GLAZE 8 METAL GLAZE 8 METAL GLAZE 8 METAL GLAZE 8	2 5 2 5	% % %	1/10W 1/10W 1/10W 1/10W 1/10W
R218 R219 R220 R221 R222	1-216-023-00 1-216-023-00 1-216-023-00 1-216-023-00 1-216-023-00	METAL GLAZE 82	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W	R422 R423 R424 R425 R426	1-216-023-00 1-216-631-11 1-216-631-11 1-216-025-00 1-216-025-00	METAL CHIP 1: METAL GLAZE 1:	50 0	.50% .50% %	
R223 R224 R225 R226	1-216-631-11 1-216-631-11 1-216-025-00 1-216-025-00	METAL CHIP 150 METAL CHIP 150 METAL GLAZE 100 METAL GLAZE 100	0.50% 1/10W 0.50% 1/10W 5% 1/10W 5% 1/10W	R427 R428 R501 R502	1-216-057-00 1-216-025-00 1-216-631-11 1-216-631-11	METAL GLAZE 1			

IF-19 PTC-4 PTC-26

Ref. No	Part No.	Description			Remark	Ref.No	Part No.	Description		Remark
R503	1-216-025-00	METAL GLAZE	100	5%	1/10W	R707	1-216-089-00	METAL GLAZE 47K	5%	1/10W
R504 R505 R506 R507 R508	1-216-081-00 1-216-057-00 1-216-009-00 1-216-089-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 2.2K 22 47K 22K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R708 R709 R710 R711 R712	1-216-081-00 1-216-049-00 1-216-045-00 1-216-039-00 1-216-077-00	METAL GLAZE 22K METAL GLAZE 1K METAL GLAZE 680 METAL GLAZE 390 METAL GLAZE 15K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R509 R510 R511 R512 R513	1-216-049-00 1-216-045-00 1-216-039-00 1-216-077-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 680 390 15K 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R713 R714 R715 R716 R717	1-216-025-00 1-216-085-00 1-216-049-00 1-216-025-00 1-216-023-00	METAL GLAZE 100 METAL GLAZE 33K METAL GLAZE 1K METAL GLAZE 100 METAL GLAZE 82	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R514 R515 R516 R517 R518	1-216-085-00 1-216-049-00 1-216-025-00 1-216-023-00 1-216-023-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 1K 100 82 82	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R718 R719 R720 R721 R722	1-216-023-00 1-216-023-00 1-216-023-00 1-216-023-00 1-216-023-00	METAL GLAZE 82	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R519 R520 R521 R522 R523	1-216-023-00 1-216-023-00 1-216-023-00 1-216-023-00 1-216-631-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	82 82 82 82 150	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	R723 R724 R725 R726 R727	1-216-631-11 1-216-631-11 1-216-025-00 1-216-025-00 1-216-057-00	METAL CHIP 150 METAL CHIP 150 METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 2.2K		1/10W 1/10W 1/10W 1/10W 1/10W
R524 R525 R526 R527 R528	1-216-631-11 1-216-025-00 1-216-025-00 1-216-057-00 1-216-025-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150 100 100 2.2K 100	0.50% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R728 R801 R802	1-216-025-00 1-216-049-00 1-216-073-00	METAL GLAZE 100 METAL GLAZE 1K METAL GLAZE 10K <variable resistor=""></variable>	5% 5% 5%	1/10W 1/10W 1/10W
R601 R602 R603 R604 R605	1-216-631-11 1-216-631-11 1-216-025-00 1-216-081-00 1-216-057-00	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	150 150 100 22K 2.2K		1/10W 1/10W 1/10W 1/10W 1/10W	RV101 RV201 RV301 RV401 RV501	1-238-783-11 1-238-783-11 1-238-783-11 1-238-783-11 1-238-783-11	RES, ADJ, CERMET 50 RES, ADJ, CERMET 50 RES, ADJ, CERMET 50 RES, ADJ, CERMET 50	0 0 0	
R606 R607 R608 R609 R610	1-216-009-00 1-216-089-00 1-216-081-00 1-216-049-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22 47K 22K 1K 680	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	RV601 RV701	1-238-783-11 1-238-783-11	RES, ADJ, CERMET 50 RES, ADJ, CERMET 50 <switch></switch>		
R611 R612 R613 R614 R615	1-216-039-00 1-216-077-00 1-216-025-00 1-216-085-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	390 15K 100 33K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	\$301 \$401 \$801 ******	1-553-638-00 1-553-638-00 1-553-638-00	SWITCH, SLIDE SWITCH, SLIDE SWITCH, SLIDE	*****	*****
R616 R617 R618 R619	1-216-025-00 1-216-023-00 1-216-023-00 1-216-023-00	METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5%	1/10W 1/10W 1/10W 1/10W		*A-8276-129-A *******	MOUNTED PCB, PTC-4 ************** <photo transistor=""></photo>		
R620	1-216-023-00	METAL GLAZE	82	5%	1/10W	PH1001	8-729-015-05	TRANSISTOR, PHOTO,	TPS612	-В
R621 R622 R623 R624 R625	1-216-023-00 1-216-023-00 1-216-631-11 1-216-631-11 1-216-025-00	METAL GLAZE METAL GLAZE METAL CHIP METAL GLAZE	82 82 150 150 100	5% 5% 0.50% 0.50% 5%				<pre><harness> HARNESS (SENSOR(PEP ***********************************</harness></pre>		*****
R626 R627 R628 R701	1-216-025-00 1-216-057-00 1-216-025-00 1-216-631-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	100 2.2K 100 150	5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W			MOUNTED PCB, PTC-26 ************************************		
R702 R703	1-216-631-11 1-216-025-00	METAL CHIP	150	0.50%		PH1003	8-729-015-05	TRANSISTOR, PHOTO,	TPS612	- В
R704 R705 R706	1-216-081-00 1-216-057-00 1-216-025-00	METAL GLAZE	22K 2.2K	5%	1/10W 1/10W	W1006	*1-949-373-11	<pre><harness> HARNESS (SENSOR(JP)</harness></pre>)	

PTC-25 PTC-24 PTC-23 SW-32 SW-36 SW-37 S-8 PTC-3 SU-5

SW-31

Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
*****	******	*********	******	*****	******	********	******
		MOUNTED PCB, PTC-25				MOUNTED PCB, SW-37 ************************************	
		<diode></diode>				<photo diode=""></photo>	
D1003	8-719-024-91	DIODE, PHOTO, SIR-481ST3F		PH1008	8-749-920-95	DIOTE, PHOTO, GP2S22	
		<harness></harness>			3-701-439-41	WASHER	
W1005	*1-949-372-11	HARNESS (SENSOR(JL))		*****		********	******
*****	*A-8276-132-A	**************************************	******			MOUNTED PCB, S-8	
	*****	<photo transistor=""></photo>				<switch></switch>	
DH1000	Q_79Q_015_0E	TRANSISTOR, PHOTO, TPS612-B		\$1001	1-572-988-11	SWITCH, SS6GL13D	
	• ,	**************************************	****			<harness></harness>	
****	*A-8276-133-A	MOUNTED PCB, PTC-23				HARNESS (SENSOR(TS))	
	******	********		*****		**********	*****
		<diode></diode>				MOUNTE PCB, PTC-3	
D1002	8-719-024-91	DIODE, PHOTO, SIR-481ST3F				<diode></diode>	
H1000	. 1 040 071 11	<harness></harness>		D1001	8-719-024-91	DIODE, PHOTO, SIR-481ST3F	
		HARNESS (SENSOR(RCL))	***			<harness></harness>	
*****		MOUNTED PCB, SW-32		W1001	*1-949-369-11	HARNESS (SENSOR (PEL))	
		*******		*****	*******	********	*****
1		<switch></switch>			*1-641-670-11 *******	SU-5 BOARD	
\$1002 \$1003	1-572-616-11	SWITCH, PUSH (1 KEY) SWITCH, PUSH (1 KEY)				<harness></harness>	
\$1004 \$1005		SWITCH, PUSH (1 KEY) SWITCH, PUSH (1 KEY)		W1011	*1-949-368-11	HARNESS B (HM)	
		<harness></harness>		*****	******	*********	*****
W1013	*1-949-376-11	HARNESS (SENSOR(RMS))				MOUNTED PCB, SW-31	
*****		***********	******			<photo diode=""></photo>	
		MOUNTED PCB, SW-36 ************************************		PH1005	8-719-800-95	DIODE TLP805	
		<photo diode=""></photo>				<harness></harness>	
PH1007	8-749-920-95	DIOTE, PHOTO, GP2S22		W1007	*1-949-375-11	HARNESS (SENSOR(HP))	
		<harness></harness>		*****	******	*********	*****
W1014	*1-949-379-11	HARNESS (SENSOR (PC1))					
	3-701-439-41	WASHER					

SU-4 SW-30 SW-35 DSC-8 IF-21 DSC-9 KY-12

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W1010 *1-949-367-11 HARNESS A(RM) ***********************************									

*A-8276-142-A MOUNTED PCB, SW-30 *************************** <pre></pre>	% 16V								
**************************************	. 101								
CN1202 *1-564-027-00 CN1203 *1-564-027-00 CN1203 *1-564-028-00 CN1203 *1-564-028-00 CN1203 *1-564-028-00 CN1203 *1-568-941-11 PIN, CONNECTOR 2P PIN, CONNECTOR 3P PI									
<pre></pre>									
W1012 *1-949-374-11 HARNESS (SENSOR(RRT)) 3-701-439-41 WASHER ***********************************									
3-701-439-41 WASHER 3-701-439-41 WASHER ***********************************									
**************************************	*. *								
R2 1-216-073-00 METAL GLAZE 10K 5%									
*A-8276-143-A MOUNTED PCB, SW-35 R3 1-216-055-00 METAL GLAZE 1.8K 5% ************************************	1/10W 1/10W 1/10W 1/10W								
<photo diode=""> < VARIABLE RESISTOR></photo>									
PH1006 8-719-800-95 DIODE TLP805 RV1201 1-241-737-11 RES, VAR, CARBON 10K/10K	/10K								
<pre></pre>									
W1009 *1-949-378-11 HARNESS (SENSOR(HHP))	******								

*A-8276-144-A MOUNTED PCB, DSC-8 ***********************************									
1-808-894-11 DISPLAY PANEL, LIQUID CR 									
CN1101 *1-568-946-11 PIN, CONNECTOR 8P <capacitor></capacitor>									
<variable resistor=""> C1 1-163-275-11 CERAMIC CHIP 0.001MF 5% C2 1-163-275-11 CERAMIC CHIP 0.001MF 5%</variable>									
RV1101 1-241-737-11 RES, VAR, CARBON 10K/10K/10K C4 1-163-275-11 CERAMIC CHIP 0.001MF 5% C4 1-163-275-11 CERAMIC CHIP 0.001MF 5% C5 1-163-275-11 CERAMIC CHIP 0.001MF 5% C7 1-163-275-11 CERAMIC CHIP 0.001MF	50V 50V								
S1101 1-570-857-11 SWITCH, SLIDE VAR←→AGC C10 1-163-275-11 CERAMIC CHIP 0.001MF 5% C11 1-163-275-11 CERAMIC CHIP 0.001	50V 50V								
*A-8276-145-A IF-21 BOARD, COMPLETE C18 1-163-275-11 CBRAMIC CHIP 0.001MF 5%									
1-236-163-11 ENCAPSULATED COMPONENT C22 1-163-275-11 CERAMIC CHIP 0.001MF 5% C22 1-163-038-00 CERAMIC CHIP 0.1MF	25V								
C24 1-124-589-11 ELECT 47MF 20 C26 1-163-235-11 CERAMIC CHIP 22PF 5% C28 1-124-589-11 ELECT 47MF 20	50V								
CN901 *1-568-948-11 PIN, CONNECTOR 10P CN902 *1-563-142-11 CONNECTOR, D-SUB (MOUNT TYPE) 25P CN902 *1-563-142-11 CONNECTOR, D-SUB (MOUNT TYPE) 25P									
C31 1-124-584-00 BLECT 100MF 20 <jack> C32 1-163-275-11 CERAMIC CHIP 0.001MF 53</jack>	% 10V								
J901 1-507-967-11 JACK C33 1-163-275-11 CERAMIC CHIP 0.001MF 5% C34 1-163-275-11 CERAMIC CHIP 0.001MF 5%	Der v								

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Ref.No	Part No.	Description		Remark	Ref.No	Part No.	Description			Remark	k
C35 C36 C37 C38 C39	1-163-275-11 1-163-275-11 1-163-275-11 1-163-275-11 1-163-275-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	5% 5% 5%	50V 50V 50V 50V 50V	R35 R36 R37 R38 R39	1-216-089-00 1-216-049-00 1-216-089-00 1-216-049-00 1-216-089-00	METAL GLAZE	47K 1K 47K 1K 47K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
C40 C41 C42 C43 C44	1-163-275-11 1-163-275-11 1-163-275-11 1-163-275-11 1-163-275-11	CERAMIC CHIP 0.001MF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V	R40 R41 R42 R43 R44	1-216-049-00 1-216-089-00 1-216-049-00 1-216-089-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 K 47 K 1 K 47 K 1 K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
· C45	1-163-275-11	CERAMIC CHIP 0.001MF	5%	50V	R45 R46	1-216-089-00 1-216-049-00	METAL GLAZE METAL GLAZE	47K 1K	5% 5%	1/10W 1/10W	
		<connector></connector>			R47 R48	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	47K 1K	5% 5%	1/10W 1/10W 1/10W	
CN3 CN4 CN5	1-568-954-11 1-568-955-11 *1-568-941-11	PIN, CONNECTOR 5P PIN, CONNECTOR 6P PIN, CONNECTOR 3P			R49 R50	1-216-089-00 1-216-049-00	METAL GLAZE	47K.	5% 5%	1/10W 1/10W	
		<diode></diode>			R51 R52	1-216-089-00 1-216-049-00	METAL GLAZE METAL GLAZE	47K 1K	5% 5%	1/10W 1/10W	
D1	8-719-104-34	DIODE 152836		4	R53 R54	1-216-089-00 1-216-049-00	METAL GLAZE METAL GLAZE	47K 1K	5% 5%	1/10W 1/10W	
D2 D3 D4 D5	8-719-104-34 8-719-200-02 8-719-940-89 8-719-975-79	DIODE 182836 DIODE 10E-2 DIODE SLP655B-50 DIODE SLP-255B-51-A			R55 R56 R57 R58	1-216-089-00 1-216-059-00 1-216-029-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 2.7K 150 2.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
		<ic></ic>			R59	1-216-029-00	METAL GLAZE	150	5%	1/10W	
IC1 IC2 IC3 IC4	8-759-988-13 8-759-059-62 8-759-970-26 8-749-900-69	IC LM393PS IC H8/325KY IC PST523C IC BX-1457			R60 R61 R62 R63 R64	1-216-109-00 1-216-051-00 1-216-051-00 1-216-051-00 1-216-042-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330K 1.2K 1.2K 1.2K 510	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
		<inductor></inductor>			R65	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
L1	1-408-978-21	INDUCTOR 47UH		:	R66 R67 R68	1-216-001-00 1-216-042-00 1-216-042-00	METAL GLAZE METAL GLAZE METAL GLAZE	10 510 510	5% 5% 5%	1/10W 1/10W 1/10W	
		<transistor></transistor>			R69	1-216-001-00	METAL GLAZE	10	5%	1/10W	
01 02	8-729-100-66 8-729-100-66	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623			R70 R71 R72	1-216-001-00 1-216-042-00 1-216-051-00	METAL GLAZE METAL GLAZE METAL GLAZE	10 510 1.2K	5% 5% 5%	1/10W 1/10W 1/10W	
D15	1 010 040 00	<resistor></resistor>	FD/ -	. /100			<switch></switch>				
R15 R16 R17 R18 R19	1-216-049-00 1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 1K	5% 1 5% 1 5% 1	1/10W 1/10W 1/10W 1/10W 1/10W	\$1 \$2 \$3 \$4 \$5	1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, KEY SWITCH, KEY SWITCH, KEY SWITCH, KEY SWITCH, KEY	BOARD BOARD BOARD			
R20 R21 R22 R23 R24	1-216-049-00 1-216-049-00 1-216-049-00 1-216-049-00 1-216-089-00	METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 1K	5% 1 5% 1 5% 1	1/10W 1/10W 1/10W 1/10W 1/10W	\$6 \$7 \$8 \$9	1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, KEY SWITCH, KEY SWITCH, KEY SWITCH, KEY	BOARD BOARD BOARD			
R25	1-216-073-00			L/10W	S10	1-554-303-21	SWITCH, KEY				
R26 R27 R28 R29	1-216-073-00 1-216-085-00 1-216-077-00 1-216-073-00	METAL GLAZE 33K S METAL GLAZE 15K S	5% 1 5% 1	1/10W 1/10W 1/10W 1/10W	\$11	1-554-303-21	SWITCH, KEY CRYSTAL>	BOARD			
R30	1-216-043-00			1/10W	X1	1-577-110-11	VIBRATOR, CR	YSTAL 2	OMHz		
R31 R32 R33 R34	1-216-043-00 1-216-017-00 1-216-073-00 1-216-025-00 1-216-049-00	METAL GLAZE 47 METAL GLAZE 10K METAL GLAZE 100	5% 1 5% 1 5% 1	1/10W 1/10W 1/10W 1/10W	******	******	******	*****	*****	******	*
		•			i						

Ref.No	Part No.	Description		Remark	Ref. No	Part No.	Description		Remark
Δ	******	******	(VTR-P3A) BOARD ************************************		C86 C89 C91 C92	9-901-967-01 1-136-499-11 1-136-165-00 1-136-165-00	CERAMIC FILM FILM FILM	270P 0.047 0.1 0.1	1KV 50V 50V 50V
	9-902-093-01 9-994-165-01	PRINTED CIRC PIN, CHECK CLIP, FUSE (UIT BOARD P-9060 FOR F2)	82B	C93 C94	1-136-165-00 9-901-967-01	FILM CBRAMIC	0.1 270P	50V 1KV
							<connector></connector>		
C11 C13	A 9-901-953-01 9-901-958-01 1-136-165-00	<pre><capacitor> CERAMIC BLECT FILM</capacitor></pre>	220P 1200 0.1	125V 200V 50V	CN10 △ CN12 CN2	*1-506-473-11 *1-564-419-11 *1-506-475-11 *1-506-479-11 *1-506-474-11			
C16 C17-1 C17-2	1-129-751-00 9-901-959-01 9-901-959-01		0.1 1500P 1500P	400V 2KV 2KV	CN6 CN7 △	*1-562-716-11 *9-901-929-01 *1-564-419-11	CONNECTOR CONNECTOR CONNECTOR	To Colony Street	
C2 Z C21 C22 C23	\$\text{A 9-901-953-01}\$\$1-124-918-11\$\$1-136-165-00\$\$1-136-165-00\$\$	CERAMIC ELECT FILM FILM	220P 47 0.1 0.1	125V 35V 50V 50V	CN9 <u>∧</u>	*1-564-419-11	CONNECTOR <diode></diode>	erica de la deservación de la constitución de la constitución de la constitución de la constitución de la cons	
C24 C25 C26 C27	1-126-101-11 1-136-157-00 1-136-165-00 9-901-960-01 \$9-901-966-01	BLECT FILM FILM BLECT CERAMIC	100 0.022 0.1 27 220P	10V 50V 50V 35V 125V	D11 D16 D21 D41 D42	8-719-510-26 9-901-937-01 8-719-510-17 8-719-500-66 8-719-500-66	DIODE DINL20 DIODE DFG2A8 DIODE S2LA20 DIODE S3LA20 DIODE S3LA20		
	\$\times 9-901-953-01\$ 1-124-557-11\$ 1-124-557-11\$ 1-124-557-11\$ 1-136-165-00\$	CERAMIC BLECT BLECT BLECT FILM	220P 1000 1000 1000 0.1	125V 25V 25V 25V 25V 50V	D61 D62 D63 D81 D82	8-719-500-70 8-719-503-40 8-719-975-85 9-984-364-01 9-984-364-01	DIODE D5S4M DIODE S3V40 DIODE ERB82- DIODE 1S2075 DIODE 1S2075	K	
C46 C47	1-136-165-00 1-136-165-00	FILM FILM	0.1 0.1	50V 50V	D83 D84	9-984-364-01 8-719-913-44	DIODE 1S2075 DIODE ERAS2-	004	
C48 C49 C5	1-124-360-00 1-124-360-00 1-9-901-955-01	ELECT ELECT FILM	1000 1000 0.22	16V 16V 125V		\$\langle 9-901-940-01 \$\langle 9-901-940-01	PHOTO COUPLE PHOTO COUPLE		
C50	1-124-360-00	ELECT	1000	16V	P0S51	9-901-946-01	POSITIVE THE	RMISTOR	
C51 C52 C54 C56	9-901-961-01 9-901-961-01 9-901-962-01 9-901-962-01	CERAMIC CERAMIC ELECT ELECT	1000P 1000P 2700 2700	1 K V 1 K V 35 V 35 V	RF11 RF41 RF51 RF52 RF61	8-719-500-16 9-992-099-01 8-719-981-44 8-719-500-41 8-719-989-43	DIODE D5SB60 DIODE D5LCA2 DIODE ESAC92 DIODE D8LCA2 DIODE ESAD82	0 M-02 0	
C57 C58 C59 C61	9-901-962-01 1-124-912-11 1-124-912-11 9-901-963-01	ELECT ELECT ELECT CERAMIC	2700 330 330 1000P	35V 50V 50V 1KV	RT61	9-901-952-01 9-901-938-01	THERMISTER 1		
C62	9-901-964-01	ELECT	1200	35V	TH61	9-901-939-01	THYRISTOR 5P		
C63 C64 C65 C66 C67	1-136-165-00 1-130-994-11 1-130-072-00 1-130-072-00 9-901-965-01	FILM FILM FILM FILM BLBCT	0.1 0.033 0.022 0.022 2700	50V 50V 50V 50V 10V	ZD61 ZD81 ZD82	8-719-109-89 8-719-109-85 8-719-930-61	DIODE RD5.6E DIODE RD5.1E DIODE HZ30-1 <puse></puse>	SB2	
C68	9-901-968-01	ELECT	10000	6.3V	F2 /	∆ 9-901-941-01	FUSE	6A 125V	
C69 C7 Z C70	1-136-153-00 1-136-155-01 1-136-165-00 1-9-901-955-01	FILM FILM FILM FILM	0.01 0.47 0.1 0.22	50V 125V 50V 125V	F61 7	∆ 9-901-945-01	FUSE <ic></ic>	3.15Å 125	y
C81 C82 C83 C84 C85	1-124-903-11 1-124-918-11 1-136-499-11 1-130-014-00 1-124-482-11	ELECT ELECT FILM FILM ELECT	1 47 0.047 470P 33	50V 35V 50V 50V 35V	H21 H61	9-901-943-01 9-901-944-01	IC RHA18-1 IC RHA11-1		

Ref No.	Part No.	Description		Remark	Ref No	Part No.	Description			Remark
M41 M42 M43 M81 M82	9-901-942-01 9-901-942-01 8-759-518-68 9-992-107-01 1-807-117-11	IC PQ12RF11 IC PQ12RF11 IC PQ12RF21 IC AN14317 IC TA75358P		NORTH N	R82 R83 R84 R85 R86	9-994-135-01 9-994-145-01 1-249-409-11 1-247-844-11 1-249-438-11		1K 8.2K 220 3.6K 56K	1/4W 1/4W 1/4W 1/4W 1/4W	nonal n
	9-901-931-01 9-901-931-01 9-901-932-01 9-901-933-01	CHOKE COIL 1	.6mH 2.5A .6mH 2.5A uH 8A OuH 5A		R87 R88 R89 R90 R93	9-901-954-01 9-994-137-01 1-249-418-11 1-249-434-11 9-901-957-01	CARBON CARBON CARBON CARBON CARBON	2.7K 1.8K 1.2K 27K 220	1/2W 1/4W 1/4W 1/4W 1/2W	
911 951	9-901-935-01 8-729-173-36	<transistor> TRANSISTOR 2S TRANSISTOR 2S</transistor>	K1018 A733		R94 R95 R96 R97 R98	1-215-869-11 9-994-144-01 9-994-135-01 1-249-438-11 9-994-138-01	CARBON CARBON	1 K 5.6 K 1 K 56 K 2.2 K	1W 1/4W 1/4W 1/4W 1/4W	
961 962 963	9-901-936-01 8-729-202-44 8-729-173-36	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1020		R99	1-249-414-11	CARBON <variable r<="" td=""><td>560</td><td>1/4W</td><td></td></variable>	560	1/4W	
		<resistor></resistor>								
R11 A R12 A R13	9-994-152-01 9-995-339-01 1-215-908-00 1-249-414-11 1-215-858-00	METAL GLAZE CARBON	220K 1W 12 135°C 5W 33 3W 560 1/4W 15 1W		RV21 RV61 RV81 RV83	1-228-991-00 1-228-989-00 1-228-990-00 1-228-991-00	RES, ADJ, RES, ADJ,	2K 500 1K 2K R>		
R16-2 A R17 A R18 A	4 9-994-154-01 5 9-994-154-01 6 1-207-632-00 6 9-901-948-01 6 1-215-902-11	CEMENT METAL GLAZE METAL PLATE	27K 5W 27K 5W 47 3W 0.1 5W 47K 2W		100 J 100 T	9-901-934-01	er grijk igrebekere brothe in ege	AND CONTRACTOR OF SECUL	******	******
R22 R23 R24 R45 R46	1-249-435-11 9-994-131-01 9-994-125-01 1-249-418-11 1-249-418-11	CARBON CARBON CARBON CARBON	33K 1/4W 390 1/4W 100 1/4W 1.2K 1/4W 1.2K 1/4W		M901 M904	1-541-594-11 1-541-593-22 *1-543-881-11	MISCELLANEO ********** MOTOR, STEP MOTOR, DC F HEAD, THERM	** PING AN	212)	
R47 R48 R49 R50 R51	1-249-418-11 1-249-422-11 1-249-422-11 1-249-422-11 1-215-907-11	CARBON CARBON CARBON	1.2K 1/4W 2.7K 1/4W 2.7K 1/4W 2.7K 1/4W 2.7 3W			*1-413-688-11 1-507-195-21 1-509-841-00 1-535-316-11 1-541-309-11	SPECIAL REM	OTE CONT AC OUTLE ROUND (M	ROL JACK	
R52 R54 R55 R61 R62	1-215-907-11 1-216-479-11 9-901-951-01 1-215-907-11 9-994-133-01	METAL GLAZE CEMENT METAL GLAZE	22 3W 560 3W 470 5W 22 3W 1K 1/2W			1-541-593-22 1-554-880-11 *1-559-969-11 1-562-227-21 1-580-375-11	WIRE, FLAT RECEPTACLE,	H (AC PO TYPE (16 BNC	CORE)	
R63 R64 R65 R66 R67	1-249-402-11 9-994-125-01 1-249-434-11 9-994-135-01 9-994-135-01	CARBON CARBON CARBON	56 1/4W 100 1/4W 27K 1/4W 1K 1/4W 1K 1/4W		^	*1-690-502-11 *1-940-905-12 *1-949-365-11 *1-949-366-11 *1-949-383-11	HARNESS, AC	(OUT) IN) B)	CORE)	
R68 R69-1 R69-2 R70 R72	9-994-135-01 9-901-949-01 9-901-949-01 9-994-135-01 1-249-410-11	METAL PLATE METAL PLATE CARBON	1K 1/4W 0.22 5W 0.22 5W 1K 1/4W 270 1/4W			*1-949-384-11 *1-949-385-11 *1-949-386-11 *1-949-387-11	HARNESS (AC	(SW1)) (SW2))		
R73 R74 R75 R76 R81	1-249-408-11 9-901-950-01 1-249-393-11 9-994-135-01 1-249-409-11	METAL PLATE CARBON CARBON	180 1/4W 0.05 2W 10 1/4W 1K 1/4W 220 1/4W							

The components identified by shading and mark are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et par une marque A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

SECTION 8 PARTS REPLACEMENT

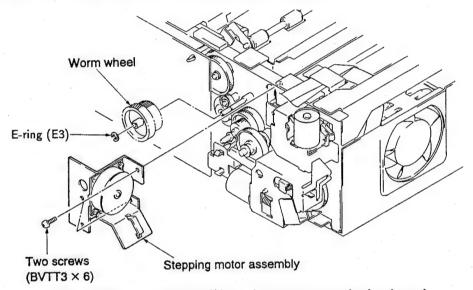
8-1. PREPARATIONS FOR SERVICING AND REPLACEMENT

The mechanism section assembly is removed from the main unit for servicing and replacement of the mechanism section.

8-2. MAINTENANCE, SERVICING, AND REPLACEMENT PROCEDURES

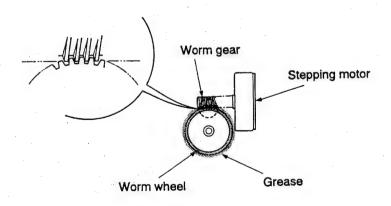
8-2-1. Replacement of Worm Wheel

- 1) Remove the two screws and remove the stepping motor assembly.
- 2) Remove the E-ring and pull off the worm wheel from the shaft.



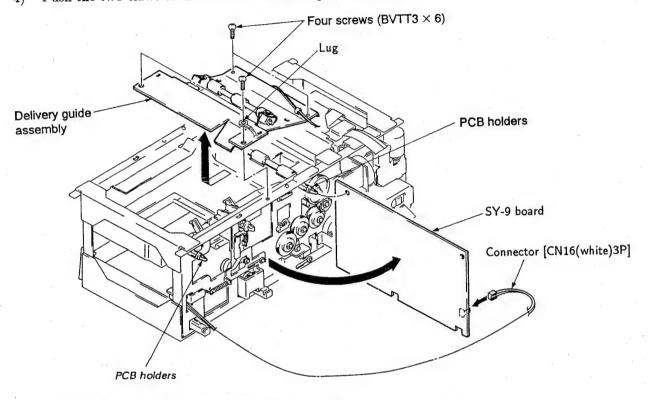
3) Apply a light coat of sony grease around the replacement worm wheel and attach.

Note: Confirm that there is some play between the worm wheel and worm gear. Sony grease (SGL-701) 7-662-010-08

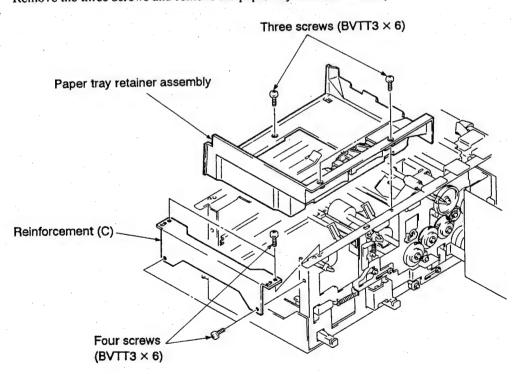


8-2-2. Replacement and Maintenance of Feed Roller

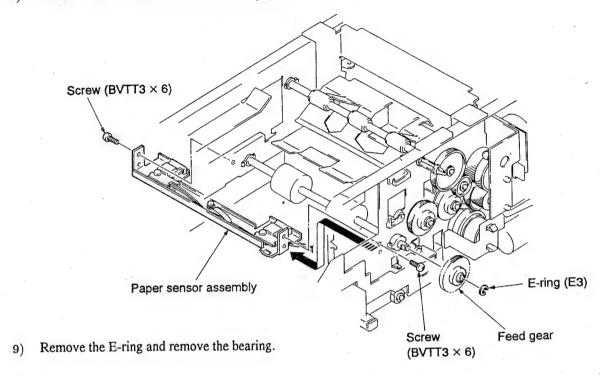
- 1) Remove the four screws and remove the mechanical shield plate.
- 2) Remove the four screws, lug and remove the delivery guide assembly.
- 3) Remove the connector [CN16(white)3P] on the SY-9 board.
- 4) Push the two claws of the PCB holders and open the SY-9 board.

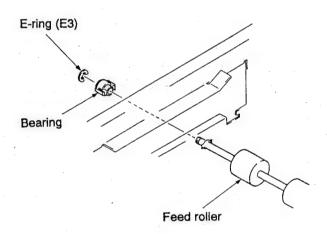


- 5) Remove the four screws and remove reinforcement (C).
- 6) Remove the three screws and remove the paper tray retainer assembly.

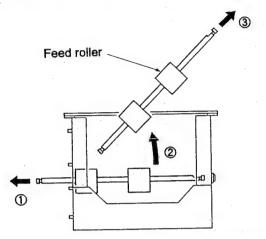


- 7) Remove the E-ring and pull off the feed gear from the shaft.
- 8) Remove the two screws and remove the paper sensor assembly.



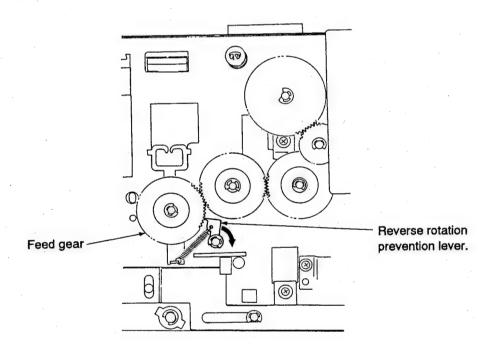


10) Remove the feed roller from the main unit by removing one end and then the other.



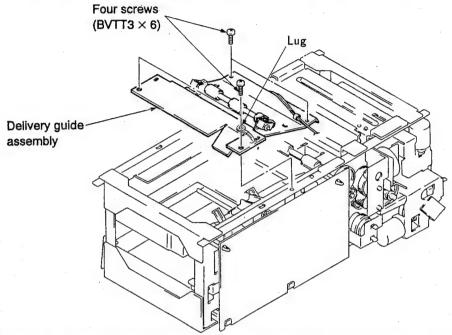
11) Replace the feed roller if worn and apply Sony grease to both ends of the shaft.

Note: When attaching the feed gear, engage the gear with the teeth of the reverse rotation prevention lever while pulling this lever in the clockwise direction.

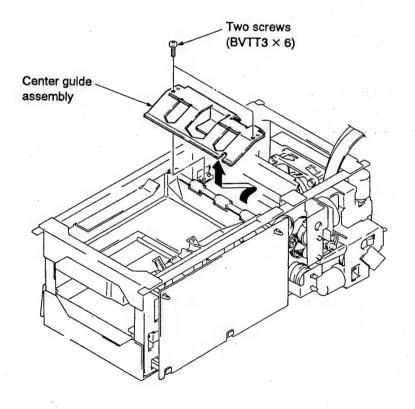


8-2-3. Replacement and Meintenance of Platen

1) Remove the four screws, lug and remove the delivery guide assembly.



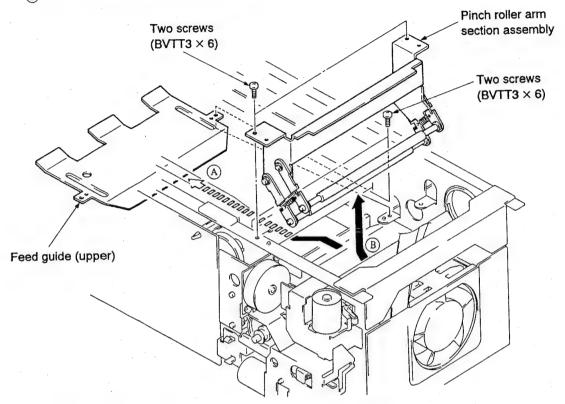
2) Remove the two screws and remove the center guide assembly in the direction of arrow.



3) Remove the two screws and remove the feed guide (upper) in the direction of arrow (A).

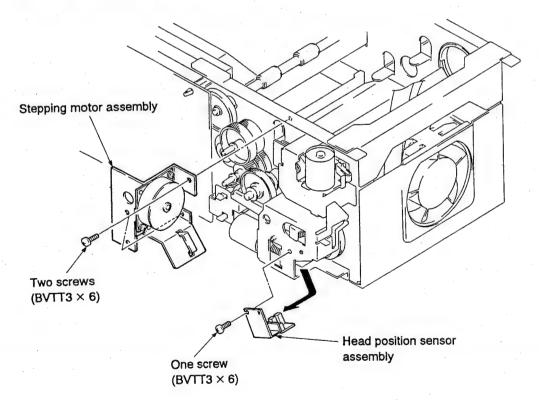
4) Remove the two screws and remove the pinch roller arm section assembly in the direction of arrow

(B)

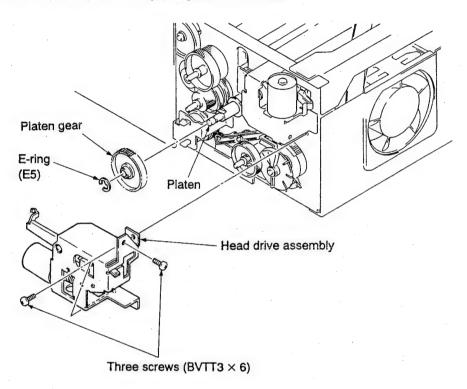


5) Remove the two screws and remove the stepping motor assembly.

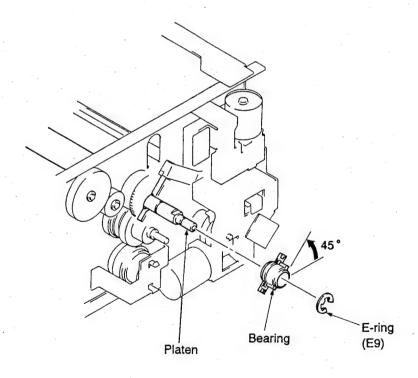
6) Remove the single screw and remove the head position sensor assembly in the direction of arrow.



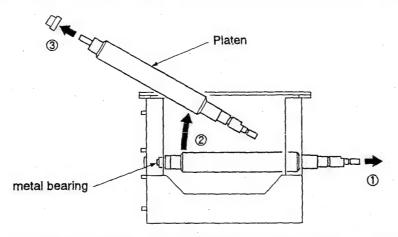
- 7) Remove the three screws and remove the head drive assembly.
- 8) Remove the E-ring and pull off the platen gear from the shaft.



9) Remove the E-ring, rotate the bearing 45°, and remove from the shaft.

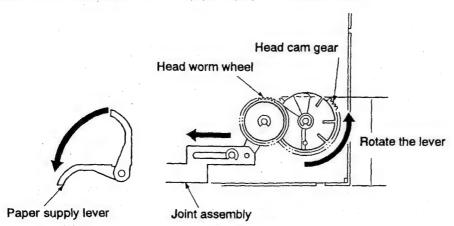


10) Remove the metal bearing and remove the platen by pulling out one end at a time.



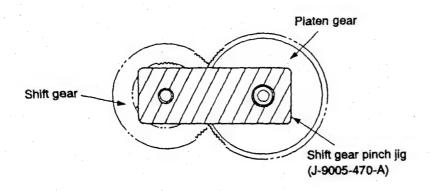
11) Replace the platen. (Apply Sony oil to the attachment position for the shaft holder.)

Note 1: In case, replacing or removing head drive assembly, rotate the head cam gear in the counterclockwise direction, stop when the cut-out section is level, and attach the head drive assembly after making sure that the paper supply lever comes down.



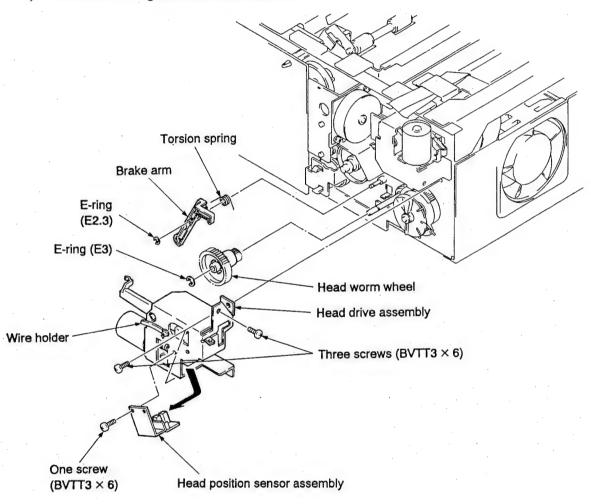
Note 2: When attaching the stepping motor assembly, make sure that there is some play between the worm wheel and worm gear.

Note 3: In case, replacing or removing stepping motor ass'y, adjust pitch between shift gear and platen gear by using shift gear pitch jig.



8-2-4. Replacement of Brake Arm

- 1) Remove the single screw and remove the head position sensor assembly in the direction of arrow.
- 2) Remove the three screws and remove the head drive assembly. (Bend the wire holder and remove the harness.)
- 3) Remove the E-ring and pull off the head worm wheel from the shaft.
- 4) Remove the E-ring and remove the brake arm.



5) Replace the brake arm and attach.

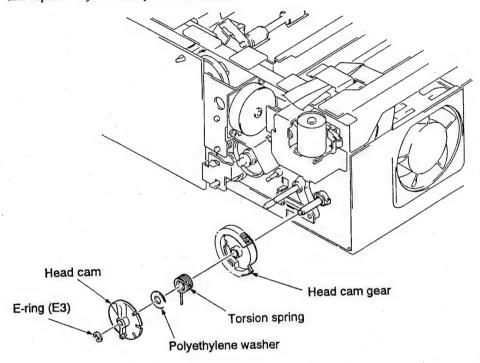
8-2-5. Replacement of Head Worm Wheel, Head Cam Gear, and Head Cam

1) Remove the head drive assembly, head worm wheel, and brake arm as described in steps 1) through 4) of 4.

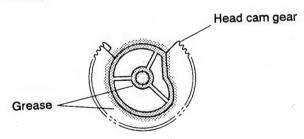
2) Remove the E-ring and pull off the head cam, polyethylene washer, torsion spring, and head cam

gear from the shaft in this order.

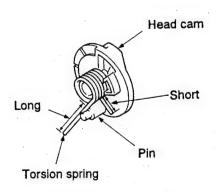
3) Inspect the head worm wheel, head cam, polyethylene washer, torsion spring, and head cam gear and replace any of these parts if necessary.



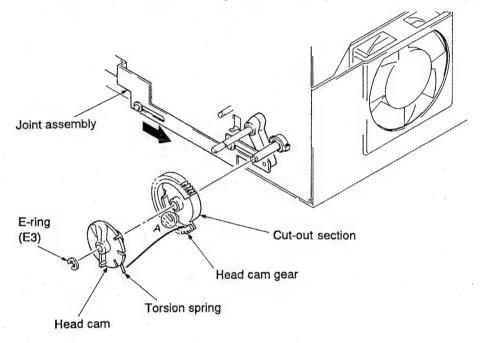
4) Apply Sony grease to the outside of the cam section of the head cam gear and to both ends of the boss, and attach to the shaft.



5) Attach the polyethylene washer and torsion spring to the head cam boss in this order, and make sure that both sides of the torsion spring sandwich the head cam pin. (Attach so that the short end of the torsion spring is at the base of the boss.)



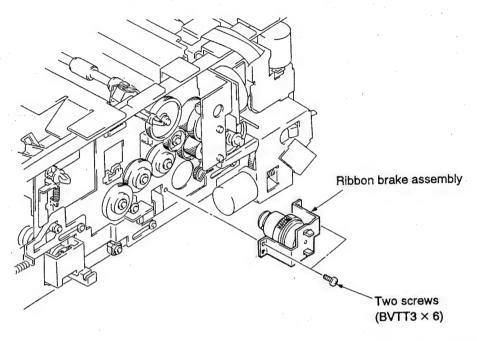
- 6) With the joint assembly pushed fully to the right, push in the head cam gear so that it comes into contact with the side chassis with the cut-out area to the right.
- 7) Gently line up the cut-out section of the head cam with the head of the shaft and insert.
- 8) Insert the tip of the head cam pin into section A of the head cam gear while making sure that the spring does not come off.
- 9) Hang the long end of the torsion spring on the projection at the cut-out section of the head cam gear.
- 10) Rotate the head cam gear in the counterclockwise direction, make sure that the paper feed lever comes down when cut-out section is at the top. Attach the E-ring to hold the head cam in place.



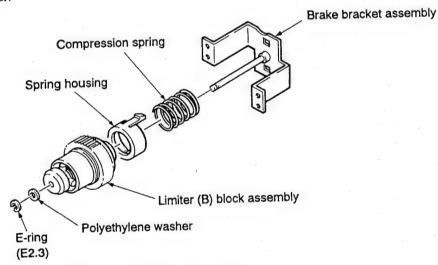
11) Attach the brake arm, head worm wheel, and head drive assembly.

8-2-6. Replacement of Limiter (B) Block Assembly (Ribbon Brake Assembly)

Remove the two screws and remove the ribbon brake assembly.



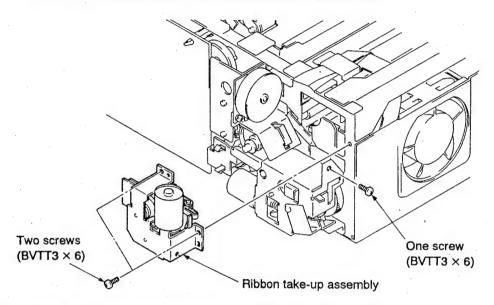
2) Remove the E-ring, polyethylene washer, and limiter (B) block assembly from the shaft in this order.



3) Replace the limiter (B) block assembly and attach.

8-2-7. Replacement of Limiter Idler Gear and Limiter (A) Block Assembly

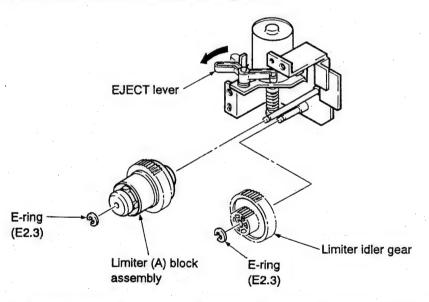
1) Remove the three screws and remove the ribbon takeup assembly.



2) Remove the E-ring and limiter (A) block assembly from the shaft.

Note: The limiter (A) block assembly will normally come into contact with the EJECT lever when removing. In order to prevent this, push the EJECT lever down as far as possible and then remove the limiter (A) block assembly.

3) Remove the E-ring and pull off the limiter idler gear.



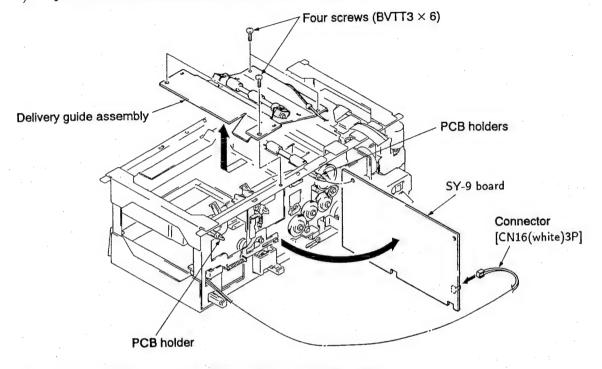
4) Replace the limiter idler gear and/or limiter (A) block assembly if necessary, and reattach.

8-2-8. Removal of Delivery Roller (Lower) and Delivery Gear

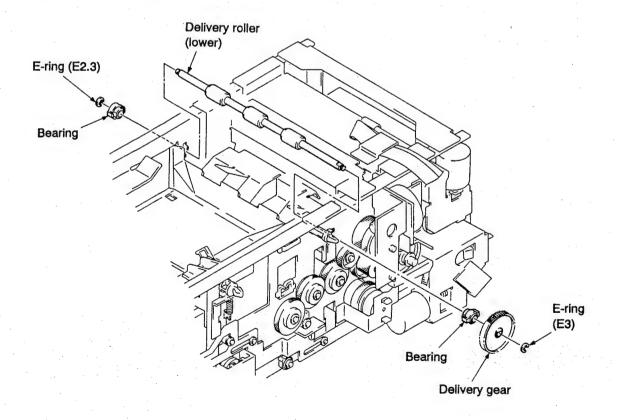
1) Remove the four screws and remove the mechanical shield plate.

Remove the four screws, lug and remove the delivery guide assembly.

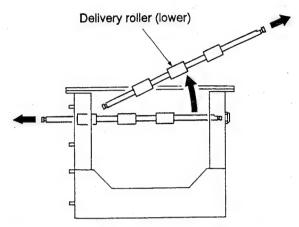
3) Open the SY-9 board as described in steps 3) and 4) of 2.



- 4) Remove the E-ring and pull off the delivery gear and bearing.
- 5) Remove the other E-ring and remove the bearing.



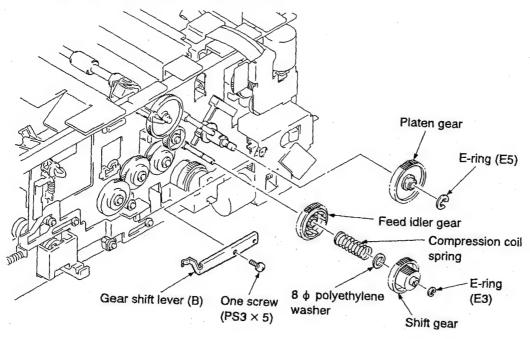
Remove the delivery roller (lower) by pulling out one side and then the other, and remove from the main unit.



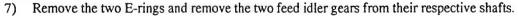
- Replace the delivery roller (lower) and/or delivery gear if necessary. Apply Sony oil to both ends (width 20-30 mm) of the delivery roller (lower) shaft and attach. * Sony Oil

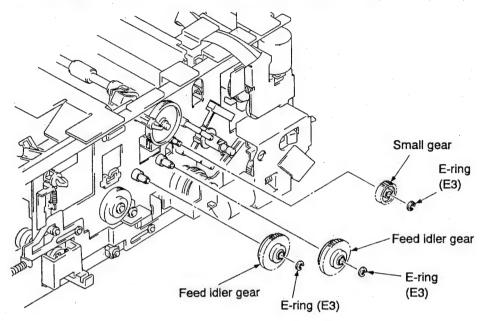
8-2-9. Replacement of Shift Gear and Feed Idler Gear

- Open the SY-9 board as described in steps 3) and 4) of 2.
- Remove the stepping motor assembly and worm wheel as described in steps 1) and 2) of 1. 2) 3)
- Remove the single screw and remove the gear shift lever (B) attached to the head drive assembly.
- Remove the E-ring and pull off the platen gear from the shaft.
- Remove the E-ring and pull off the shift gear, 8ϕ polyethylene washer, compression coil spring, and feed idler gear from the shaft in this order.



6) Remove the E-ring and remove the small gear.

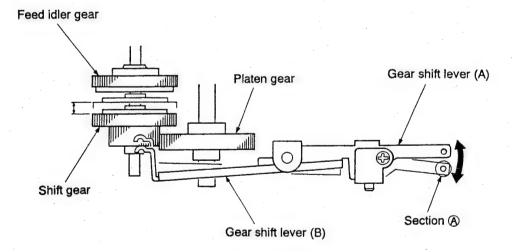




8) Replace the shift gear and/or two feed idler gears if necessary, and reattach.

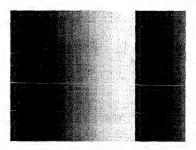
Note: When it is difficult to attach the gear shift lever (B), attach while pressing on the shift gear with your finger. After attachment, confirm that the gear shift lever (B) presses against the shift gear, and that the shift lever moves when the section of the gear shift lever (A) is pushed with your finger.

: Be careful that gear shift lever (B) does not scratch the teeth of shift gear when it is mounting.



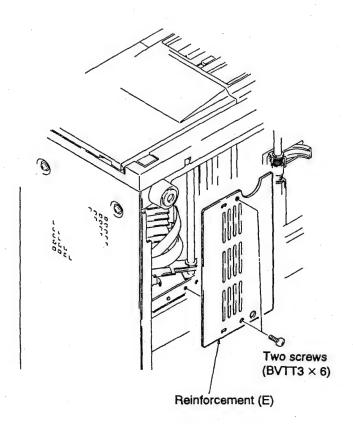
8-2-10. Replacing of Thermal Head

1) Before replacing, print out two sheets using the signal of service mode 1 (16 stair steps signal). (The second sheet is used as reference for density comparing after replacing the head.)

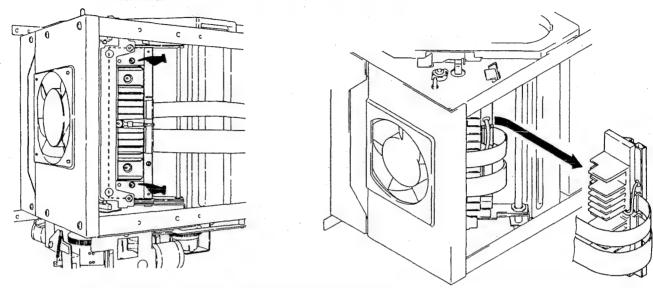


16 Stair steps

2) Remove the bottom panel so as to remove the reinforcement (E).

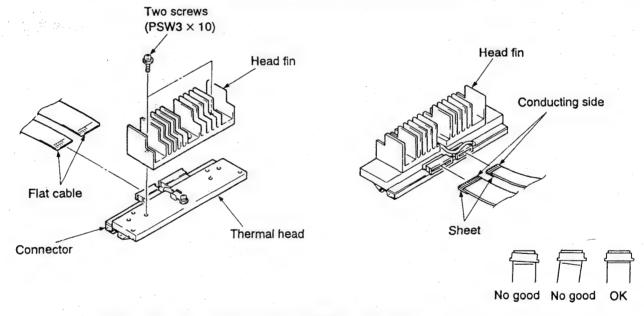


Remove two PSW3 × 5 screws shown in the figure and remove the head assembly while turning forward.



Note: When connecting or disconnecting the flat cable, first pull up the top of the connector.

When replacing the head, remove the head fin from the thermal head assembly as shown in the figure below. After replacing the head, reassemble them as before.



Remove the upper case and open the FMY-8/ VA-26 board. Print out 2 copies before replacing the head, and print out more than 2 copies after replacing it. Adjust RV1 so that the density of the black portion of the copy made before replacing the head is the same density as the copy made after replacing the head.

RV1 (SY-9 Board) Adjustment Method:

Clockwise:

UP ((🖫)

Counterclockwise: Down (19)

SONY.



SONY - SP0165

COLOR VIDEO PRINTER

UP-5100 UP-5150 UP-5200MD UP-5250MD

SERVICE MANUAL

CORRECTION-1

Please add and replace your manual with this CORRECTION-1.

5-20. Y/C SEP Y Adjustment (VA-26 Board)

Page	Incorrect	Correct
140	Spec. TP 303 (L-5)	TP 323 (F-3)
	A=Minimum (Less than 0.05 V p-p)	A=Minimun (less than 0.02 V p-p)

SECTION 7. ELECTRICAL PARTS LIST (UP-5200MD/5250MD only)

Page	Incorrect	Correct			
172	* A-8271-102-A SY-9 BOARD,COMPLETE	* A-8271-102-A SY-9 BOARD,COMPLETE (UP-5200MD) * A-8271-113-A SY-9 BOARD,COMPLETE (UP-5250MD)			
173	IC5 8-759-500-67 IC AM27C010-155DC	IC4 8-759-067-76 IC AM27C512-SY9NV1.2 IC5 8-759-058-91 IC HN27C101AP-SY9GV1.0			

SECTION 7. ELECTRICAL PARTS LIST

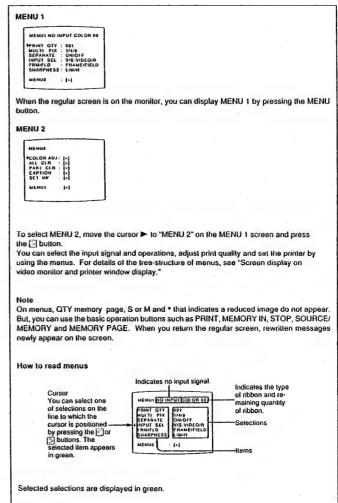
Page		Incorrect	Correct			
182	↑ * 1-413-688-11	POWER SUPPLY (VTR-P3A)BOARD	△* 1-413-688-11	REGULATOR, SWITCHING (VTR-P3A)		

The components identified by shading and mark A are critical for safety.
Replace only with part numer specified.

Items marked "* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When you turn on the printer, the initial screen message appears. Once the printer is ready, the following message appears. You can erase this message (see "Erasing screen messages"). This screen is called the regular screen. GTY1 1A18 2A18 - 8 C (Caption) (See page 63.) C is displayed when you print a caption consisting of the date and/or comments. When you first turn on the printer, "C" does not appear. This C appears only when you select the caption QTY (Quantity) QTY indicates the number of copies to be printed (see page 36). This item blinks while the printer is busy. Also, the color changes to indicate the progress, as follows: Printing start - yellow - magenta - cyan - printing ends 1A1B 2A2B Whichever memory you select appears in green. The UP-5100 printer has only one memory. Thus, "1A1B" appears on the screen. S indicates the type of image shown on the monitor screen. S (Source): An image being played back from a video deck is displayed on the screen. M (Memory): An image stored in memory is displayed on the screen.

Menus displayed Either of two menus can be displayed.



Adjusting the color

This subsection explains how to adjust the printout color.

You can adjust the following on the menu screen.

- . Color intensity (R/G/B)
- Picture contrast (DARK/ LIGHT)

Presetting

You can preset three print colors. This operation is called presetting. The color intensity and picture contrast of a printout are determined by one of three presettings. These presettings remain in the printer even when you turn the power off. One way of adjusting an image is to change the presetting completely; the other is to temporarily adjust the displayed setting without storing it.

Adjust the color using the following procedure.

When presetting

Displaying an input signal or an image stored in memory on the video monitor

Displaying the menus and then the COLOR ADJUST screen.

Selecting the presetting number

Adjusting the color intensity and picture contrast

Storing the presetting

When adjusting the displayed setting without storing

Displaying an input signal or an image stored in memory on the video monitor

Displaying the menus and then the COLOR ADJUST screen.

Selecting the presetting number

Adjusting the color intensity and picture contrast While adjusting the color, TEMP appears in green to the right of the PRESET item. This TEMP indicates that the setting is temporary and not stored. If you subsequently print, the printer prints the image with the newly preset values. The TEMP presetting is cleared, however, when you turn the power off.

Displaying the SET UP menu

Press the MENU button to display the MENU 1 screen. Move the cursor ➤ to MENU 2, then press the [⅓] button.

0175

below.

Setting the print size.

Move the cursor ➤ to SET UP by pressing the [7] or [7] buttons:

Shifting the printout horizontally

V SHIFT Shifting the printout vertically

MONITOR

Setting the video signal output from the MONITOR connector on the printer

The functions of the SET UP menu are outlined

SET UP
SITE NARINORMIWIE
SITE NARINORMIWIE
V SHIFT OLINES
MONITOR : SHIPE TO E
DISPLAY ONDOT IT
HE MOSTE WAPPHINITES
RAUD RAFE 12/24/4800/98
LCD CONTR 1

Turning the character display on the video monitor on or off

REMOTE 2
Setting the printer operation when the printer receives the signal from REMOTE 2 connector

BAUD RATE Setting the baud rate of the RS-232C connector

LCD CONTR

Adjusting the contrast of the printer window



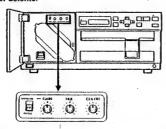
MENU1 : [>]

then press the | button.

MENUZ

Before starting adiustment

Set the HUE and COLOR controls to the center detents.



Do not change the MONITOR RGB control setting on the rear of the printer, or the color control setting of the video monitor when a video signal is input to the video monitor.

Adjust HUE and COLOR while viewing the input signal on the video monitor.





You cannot adjust an image stored in memory. Adjust the picture quality before storing and

About the GAIN AUTO/MANUAL selector and GAIN control

The GAIN AUTO/MANUAL selector and GAIN control are used to adjust the input signal to the optimum level for printing.

When the GAIN AUTO/MANUAL selector is set to AUTO, if a signal is weak, that is it has a low amplitude - the AGC (automatic gain control) amplifies it so that it results in a good printout. However, the AGC may cause an unnatural brightness in some cases. For example, a dark scene may be printed much lighter than it appears on the monitor. In this case, set the GAIN AUTO/MANUAL selector to MANUAL and make the adjustments necessary with the GAIN control. When the input level is appropriate, we recommend you to select the manual adjusting.

For an RGB signal, if the input level of each signal is different, you cannot adjust the input signals with the GAIN control.

To produce a satisfactory printout of the image on the video monitor, adjust the monitor and printer colors so that the video monitor colors are the same as those of the printout. Perform the adjustment with the MONITOR RGB controls on the rear of the printer. The printer outputs either of the two kinds of video signals according to the printer specifications.

- . E to E: Signals are output to the video monitor after being processed by the printer's circuitry
- THRU (through): Signals are output to the video monitor At the factory, the printer is adjusted such that the images for both signals appear identical. If they are different, the settings of the printer's controls may not be correct. Check the settings of the MONITOR RGB, HUE. COLOR and GAIN controls

When the video monitor color does not malch that of the printout, adjust as follows.

Adjusting the monitor color

Even if the printer is correctly adjusted, the video monitor may not be correctly adjusted. This may happen when you replace the video monitor. If the color of the monitor is adjusted using the controls on the printer, it is difficult to check whether the video monitor is itself correctly adjusted. When you don't want to move the controls on the printer, adjust the monitor color with the video monitor controls, using the through signal that is output directly to the monitor without being processed by the printer's circuitry.

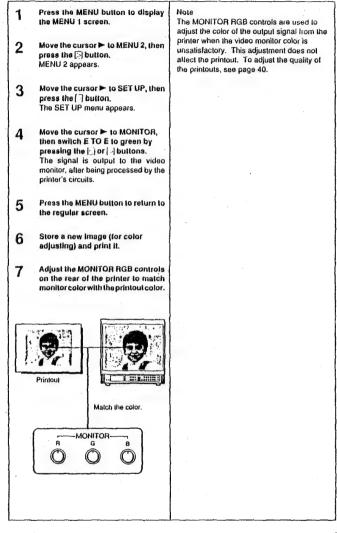
- Press the MENU button to display the MENU 1 screen.
- Move the cursor ► to MENU 2, then press the button. MENU 2 appears.
- Move the cursor ➤ to SET UP, then press the [3] button. The SET UP menu appears.
- Move the cursor ➤ to MONITOR. then switch THRU to green by pressing the Flor D buttons. The signal is output to the video monitor.
- Press the MENU button to return to 5 the regular screen.
- Adjust the color of the monitor by 6 using monitor controls.

O

Compensating

Adjusting the color of the printer's output signal

To adjust the color of the printer's output signal to the video monitor, change the output signal to that which is processed by the printer's circuits. First print the image and adjust controls on the printer while comparing the printout with the image on the video monitor.



When you want to see an image that is hidden behind a screen message {C, QTY1, 141B and others}, you can erase the screen message. The printer operations are identical, regardless of whether messages are displayed on the screen. The messages can always be seen on the printer display window.

Screen display

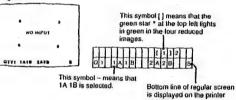
Printer window display

Menu screen

COLOR ADJUST IN LEAD
DEPLAY : INLL'SINGLE
PRESET : 12/23 | 1 EMP
PRESET : 12/23 | 1 EMP
PRESET : 12/23 | 1 EMP
DRIVE : 0 | 1 EMP

Item setected with the cursor on the menu screen is displayed on the printer window

Regular screen



For detailed information on screen display and window display, see page 81.

- Press the MENU button to display the MENU 1 screen.
- Move the cursor ➤ to MENU 2, then press the button.
 MENU 2 appears.
- Move the cursor ➤ to SET UP, then press the [3] button.

 The SET UP menu appears.
- Move the cursor ➤ to DISPLAY, then switch OFF to green by pressing the ∰ or ∰ buttons.

To display screen messages At step 4, switch ON to green.

Note

If you set the printer output signal specification to THRU (through), screen messages do not appear even when you switch ON to green.
In this case, press the SOURCE/MEMORY button. The image stored in memory appears on the video monitor and you can check the present condition.
However, error messages can appear at any time.

Sometimes, a black line appears on the printouts, although it does not appear on the video monitor. A portion where there is no video signal is printed in black. This may occur when you make printouts after connecting a different video source or play back a different video software

If a black line appears on the printout, adjust the printer as follows:

- Press the MENU button to display the MENU 1 screen.
- Move the cursor ► to MENU 2, then press the [] button. MENU 2 appears.
- Move the cursor ► to SET UP, then press the | button. The SET UP menu appears.



- Move the cursor ➤ to H SHIFT when the black line is on the right
- Adjust the horizontal number by pressing the | | or | | buttons. You can shift the image to the right by up to 36 dots and to the left by up to 22 dots in steps of 2 dots.

When you shift the image to the right of the standard position, R (right) appears.

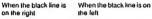
When you shift the image to the left from the standard position, L (left) appears.



Move to the left. Move to the right.



This means that the image moves to the right from the standard by 6 dots.





Shift the image to the right by pressing the justion.

by pressing the

When it is difficult to check whether the black line appears on the monitor, make a printout of four reduced images so that you can see any black line clearly.

Move the cursor ➤ to V SHIFT when the black line is at the top or bottom.

Adjust the vertical number by pressing the or buttons. You can shift the image up or down by

> When you shift the image up from the standard position, U (up) appears. When you shift the image down from the standard position, D (down) annears





This means that the image moves up from the standard by 2 lines.

When the black line is at the bottom

When the black line is at



Shift the image down by pressing the

pressing the | button.

Press the MENU button to return to the regular screen. The black line is also stored in memory with the previous image. Thus, store a new image in the memory and print it to check whether the black line disappears.

When the black line still remains even after adjusting H SHIFT or V SHIFT, change the size to smaller one.

When you print an image that is narrower or wider than the standard screen size, you can change the screen size. The printer supports the following three sizes as standard. NAR (narrow): 708 (H) x 462 (V) (dots x lines) Use this size when a black line appears on the printout. NORM (normal): 720 (H) × 468 (V) (dots x lines) Use this size normally. WIDE: 756 (H) × 486 (V) (dots x lines)

It is not recommended that general users use the WIDE size. In WIDE mode, the video monitor may not work correctly because the scanned portion exceeds the range that the video monitor can support.

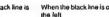
Use this size to print when

the signal scans beyond the

edge of the regular screen.

Setting the Screen Size

- Press the MENU button to display the MENU 1 screen.
- Move the cursor ➤ to MENU 2, then press the D button. MENU 2 appears.
- Move the cursor ➤ to SET UP, then press the D button. The SET UP menu appears.
- Move the cursor ► to SIZE.
- Switch the desired size to green, NAR: When the signal scans within the limits of the regular screen (when the black lines appear in normal size even though you shift the image with the H SHIFT or V SHIFT function NORM: Regular screen size WIDE: When the signal scans outside the limit of the regular screen





By pressing the land buttons logether the image position returns to the standard position. However, this function is not available when you are using the remote control unit.

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You can control the printer with either of the following two options connected to the REMOTE 2 connector on the rear panel.

- FS-20 foot switch (not supplied) (see page 21)
- Pulse signal (see page 83)

The printer operates in one of the following three modes when receiving a pulse signal, according to the printer setting. You set the operation from a menu. M(MEMORY) & PRINT: Stores an image in memory and printing it at the same CYCLIC M(MEMORY): Stores images in memory cyclically M(MEMORY) STOP: Stores an image in one memory whenever the printer receives a pulse signal. The printer stops storing images

in the memory when images

have been stored in all

memories.

Setting Operation Mode

- Press the MENU button to display the MENU 1 screen.
- Move the cursor ➤ to MENU 2, then press the [¬] button.

 MENU 2 appears.
- 3 Move the cursor ➤ to SET UP, then press the | | button.
 The SET UP menu appears.
- 4 Move the cursor ► to REMOTE 2.
- 5 Switch the desired operation mode to green.

 M (M & PRINT): Stores an image in memory and printing it at the same time

 The memory page is not changed.

 C (CYCLIC M): Stores images in memory cyclically

 M(M STOP): Stores an image in one memory whenever the printer receives a pulse signal. The printer stops storing images in memory when images have been stored in all memories. Message STOP STOP STOP appears.

When STOP STOP STOP appears
Press the STOP button. (All buttons other
than the STOP button are not active.)

Notes

- When you select M, the printer stores an image and prints it at the same time.
 When you select either of the other two, the printer only stores the images in memory. To print those images, select the memory page and print it.
- When you select C, the printer continues to store images by replacing a previously stored image with a new one.

You can set up the following printer specifications in addition to those explained in this chapter.

- Communication speed between the printer and a computer
- . Contrast of window display

Setting the baud rate

You can control the communication speed with a computer connected to the R5-232C connector on the rear panel. For details, see "Color Video Printer Interface Manual UPM-5000" (not supplied). You can set up the baud rate from the SET UP menu.

- 1 Press the MENU button to display the MENU 1 screen.
- Move the cursor ➤ to MENU 2, then press the [button.

 MENU 2 appears.
- Move the cursor ► to SET UP, then press the (button.
 The SET UP menu appears.
- Move the cursor ➤ to BAUD RATE. All digits of the selected baud rate are displayed. Only the high-order two digits of the remaining baud rates are displayed.
- 5 Switch the desired baud rate to green. The selected baud rate is displayed in green, with all digits shown (00 is added).

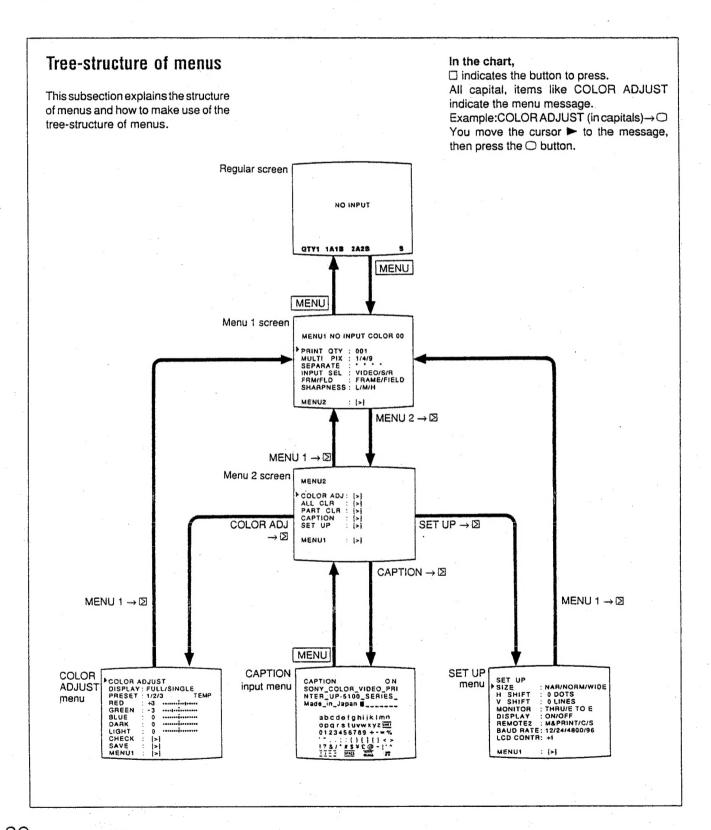
Adjusting the contrast of the window display

You can adjust the contrast of the window display.

- 1 Move the cursor ➤ to LCD CONTR of the SET UP menu.
- 2 Adjust the contrast of the window display by pressing the [[] or [] buttons.

To make the contrast stronger, press the [] button.
To make the contrast weaker, press the [] button.

The printer window display is different from the screen display on the monitor because the display range is narrower and the number of characters is limited. The contents are the same.



Differences between video monitor and printer displays] indicates the position Regular screen where the green star * is placed on the multi-image screen. [1]2 3 2 A 2 B Indicates the QTY1 1A1B 2A2B selected memery Displays the bottom line of the screen MENU 1 and MENU 2 PRINT In the case of no input, NO INPUT appears. MENU1 COLOR 00 PRINT OTY: MULTI PIX: SEPARATE: INPUT SEL: FRM/FLD: SHARPNESS: The display changes whenever you press the ∩or ⊘button. INPUT VIDEO/S/R FRAME/FIELD L/M/H ↓ indicates that items continue downward. MENU2 : [>] T indicates that items continue upward. SIZE ↑↓ indicate that items continue both upward NAR/NORM/WIDE and downward. The line in the character **CAPTION** input display area where the cursor is placed is CAPTION OFF SONY_COLOR_VIDEO_PRI NTER_UP-5100_SERIES_ Made_in_Japan #_____ displayed. Made Japan abcdefghilkimn opqrstuvwxyz 0123456789 +-= % ...:()[][]<178./* \$\$ \$\$ \$\$ \$\$ \$\$ -!^{*} 11== Piet ZM == ON The line in the character enter area where the cursor is placed. Message screen Messages are displayed. SONY COLOR SONY COLOR VIDEO PRINTER VIDEO PRINTER